

62

B 3

WHEELER'S PRELIMINARY SURVEY
FROM
NATIONAL CITY TO SAN DIEGO RIVER
OCT. 6-1880.

(143)

TRAVERSE TABLE FOR TRANSIT BOOK,
From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.40	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.45	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		

Published by Edward Denny & Co., Stationers, Drawing Materials,
Mathematical Instruments, Etc., San Francisco.

No. 1.

Wallace B. Parker

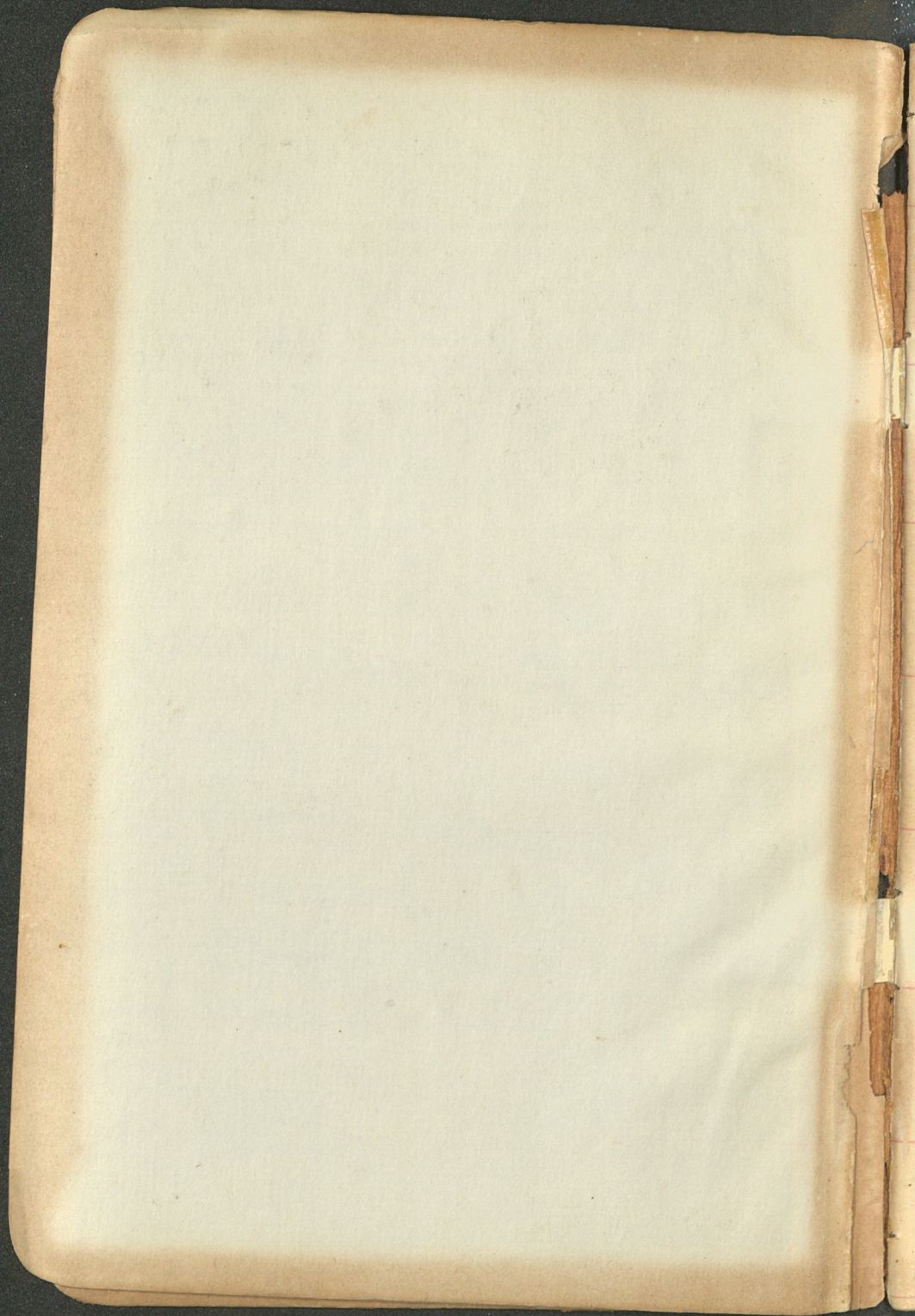
Topographer

Work begun Oct-6th 1880

M. G. Wheeler's Survey for
R.R. - from National City
along water front of San
Diego and thence through
Solidad. —

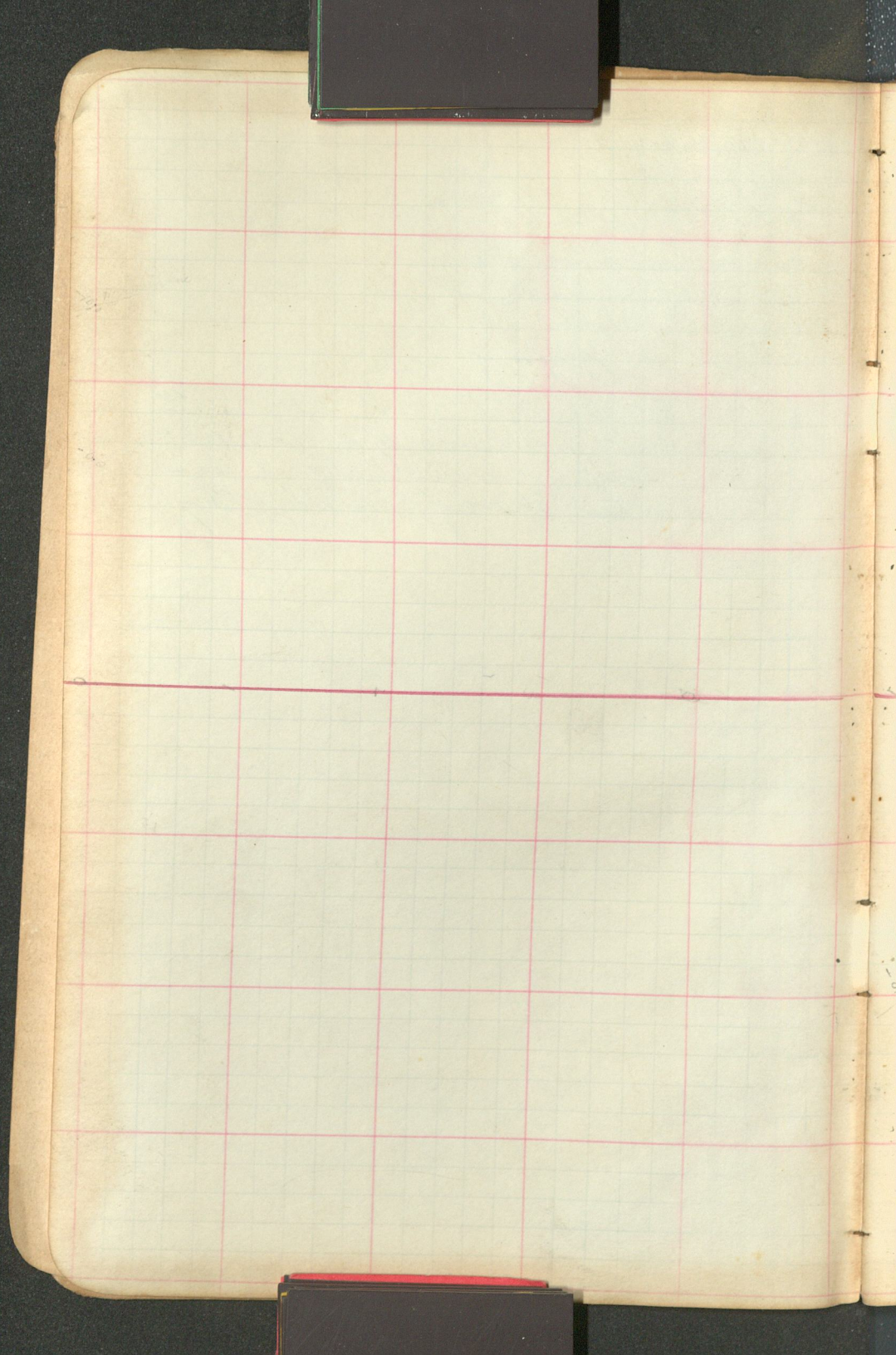
Preliminary Run

From Sta. 0. to Sta 500.
From Oct. 6, 1880. to Oct. 8, 1880.



Oct. 5, 80

Commenced work at the Laredo
Point - Established by M. G. Wheeler
Asst. Engr. in National City -
near the shore of San Diego Bay



San Diego Bay

Line of high water

Line of salt-marsh

Original position of dune

John
W. W.

Water Line

Bluff

Level Mesa

Level Mesa

470. *Platanus*

525 water-line
24 bank - 0.00

14

13

12

11

10

435 m. 100 ft
2nd level - 4

446 m. 100 ft
2nd level - 0.10

20

19

18

17

16

15

the back - 00

25

24

23

22

21

20

29

30

28

27

26

25

24

+6
March 1900

1500
1500

1500 water line
the back - 00

Wedge line

Marsh

Deep Water

30

31

32

33

34

35

San Diego Bay

Marsh

Level
Mesa

40

39

38

37

36

35

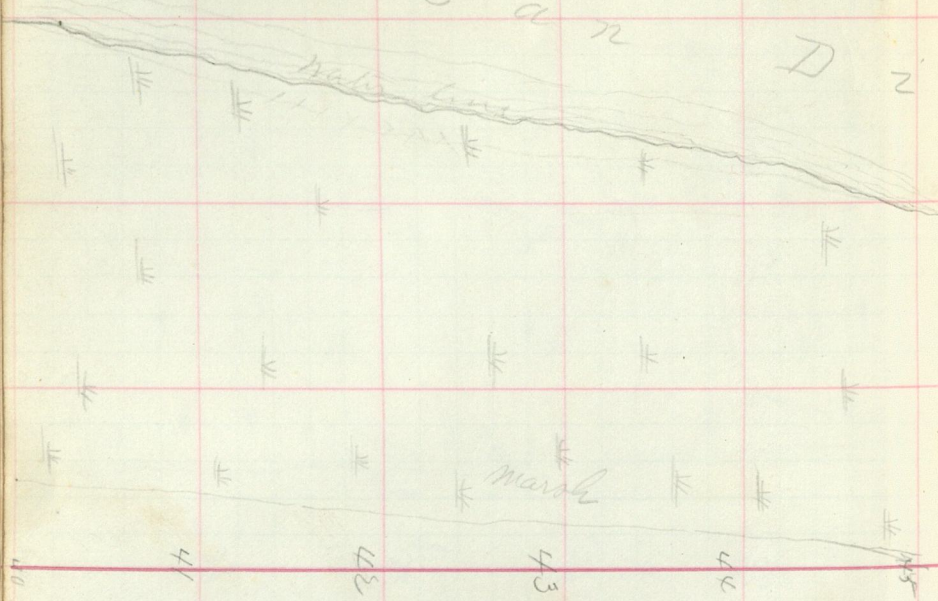
S a n

D 2

Saline Line

Marsh

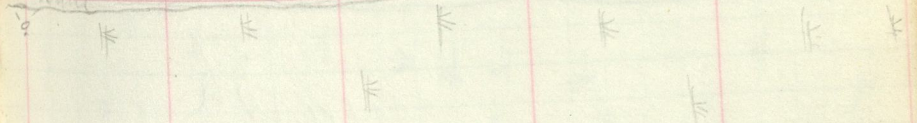
Level



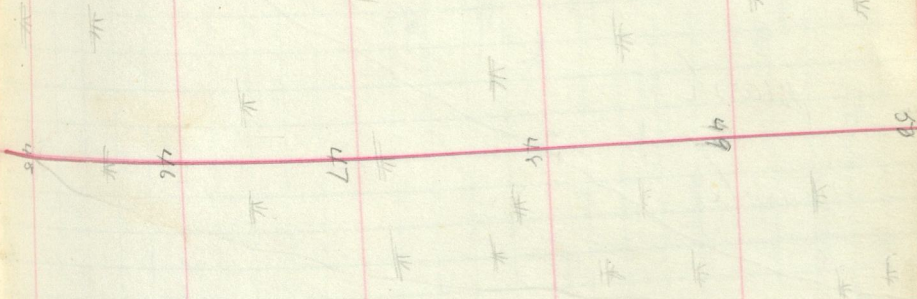
090

Bay

090

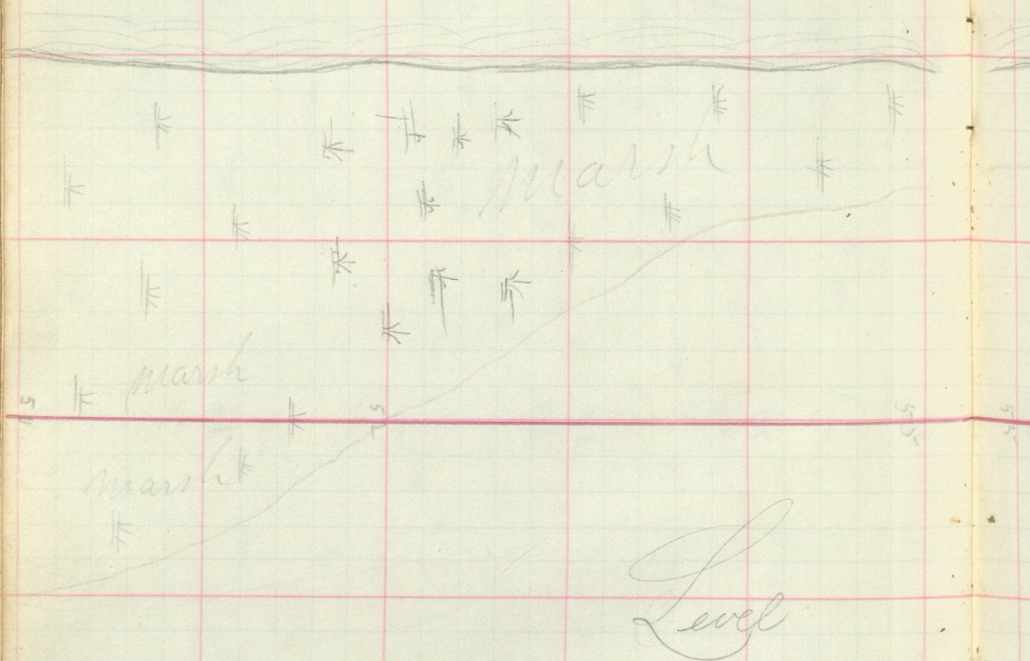


Marsh



Mesa

Sea 22 D 2



Wednesday 10-8

ego Bay

water line

Mesa

2nd
land mark

500

water line - 200

00

Marsh

Stough
I.R.

Saline
dry

Salt-Marsh

Marsh

5-00
marsh

slough

66

67

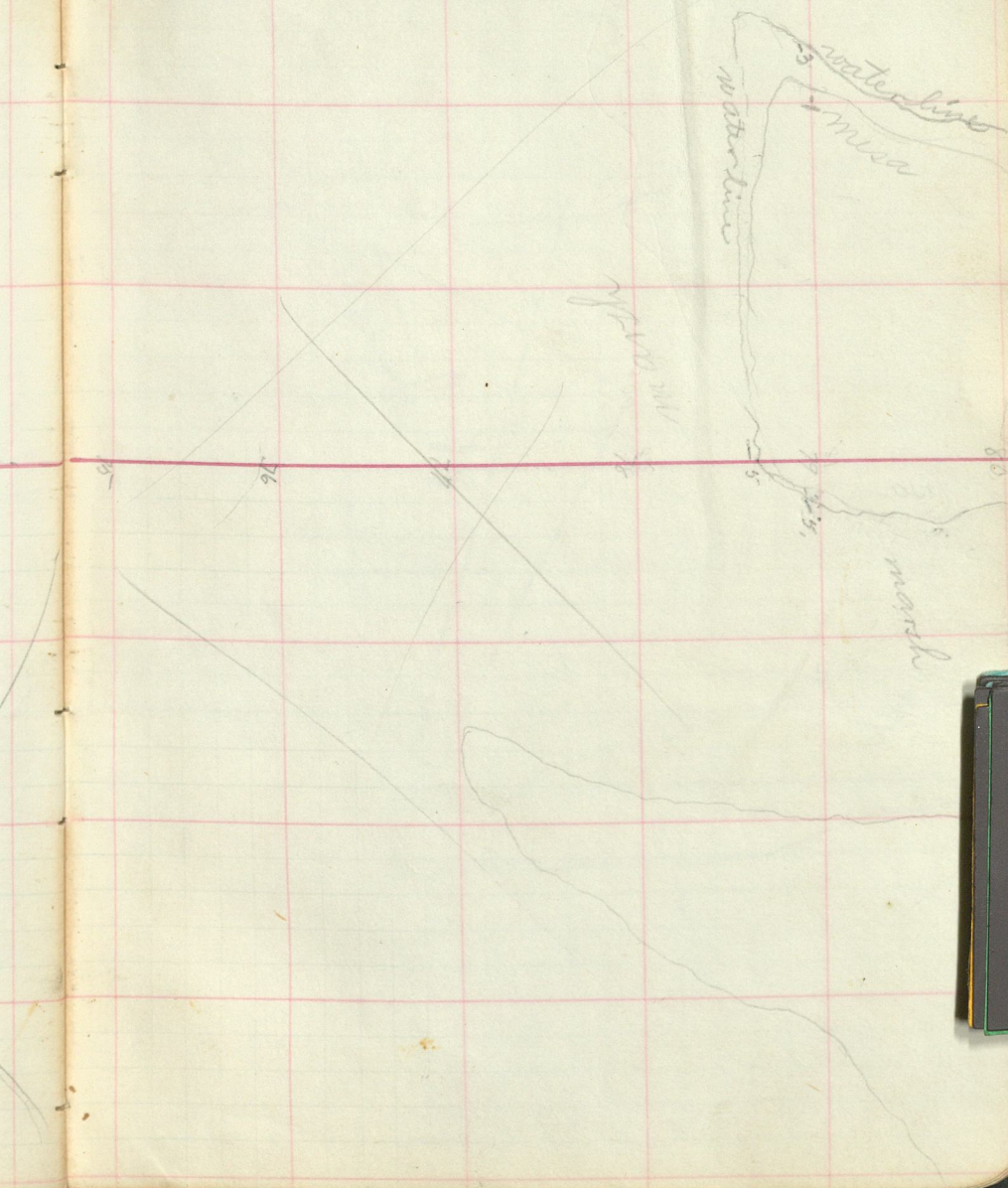
68

69

70

mark

7



Mark

4-7 line of wood - 3

dry land

Mesa

mark

80

81

82

83

84

85

77

78

79

80

81

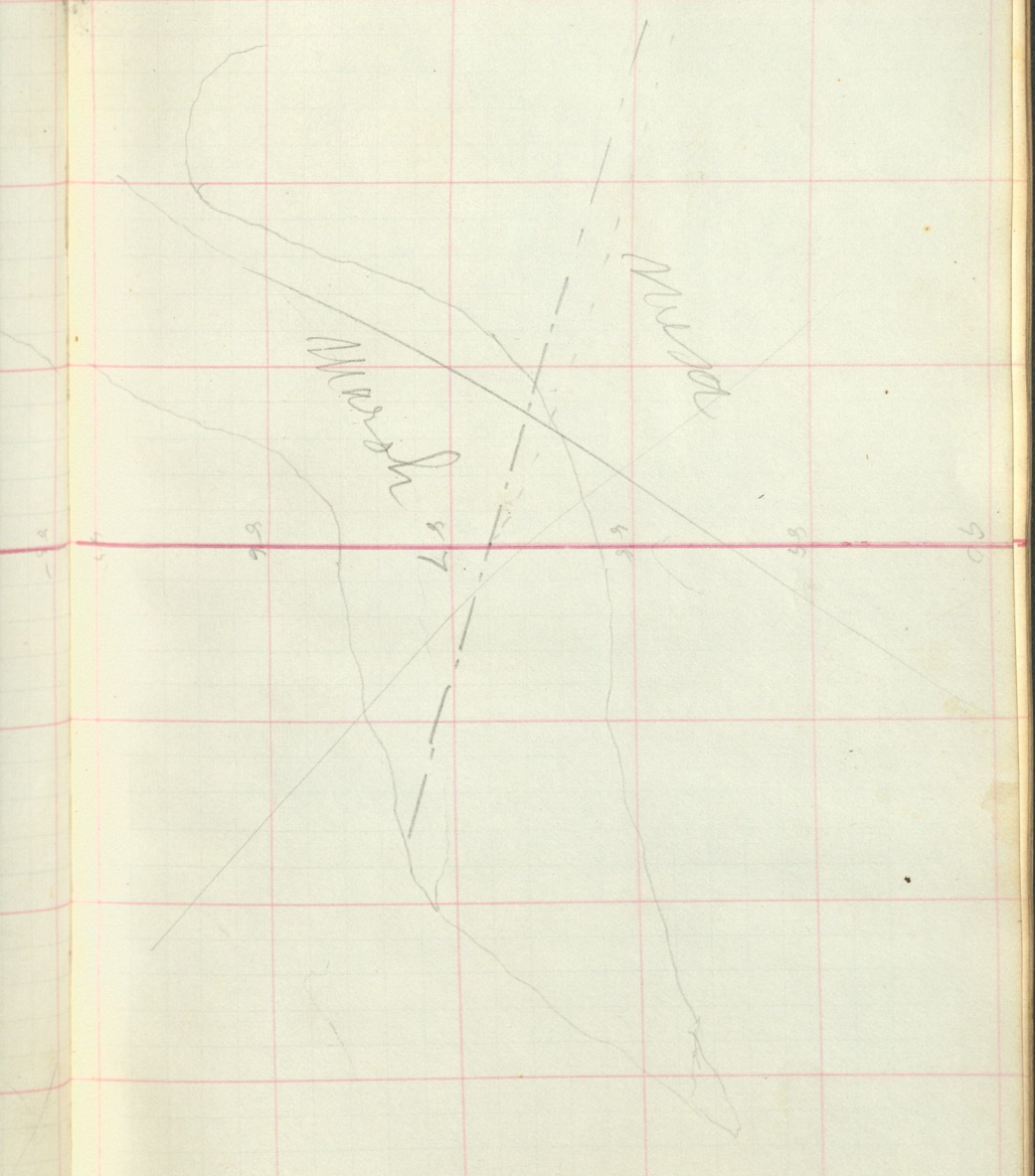
82

83

Shore
939'

Mud

Marsh



March

8 11 12 13 14 15

+3.

100

-4.

x 8.

96

-1

Curve

96

50

level

Mesa

104

103

102

101

100

8.65
short lived bands
-12.5000 bands

810, short lived

Good mea

Good mea

110

109

108

107

106

105

104

115

115

+5

114

-8

+2

113

-2

+1

112

-100

11

111

1675 - Pine Line
1-7.

Salt - Marsh

Mesa

120

11

11
-6
-6

11

11
7

11

11
6

11

11
5

12

11
5

11
5

Salt - Marsh

Salt - Marsh

15

Pompeia

+ 1

500 water line - 11

12.5

11

12.2

12.3

12.4

12.5

12.2

water line

March

187

187

187

187

187

135

134

133

132

131

130

130

139

138

137

136

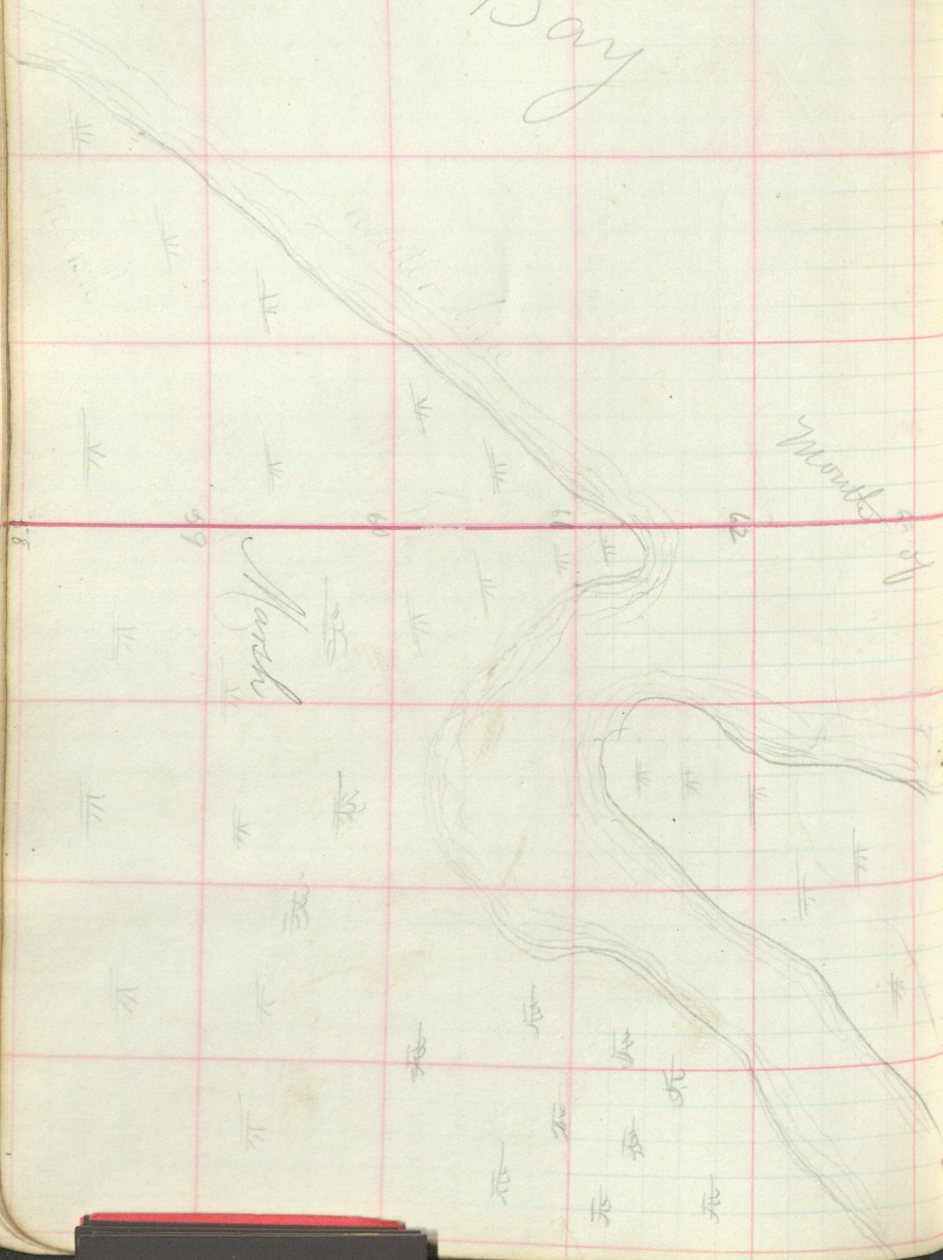
135

Bay

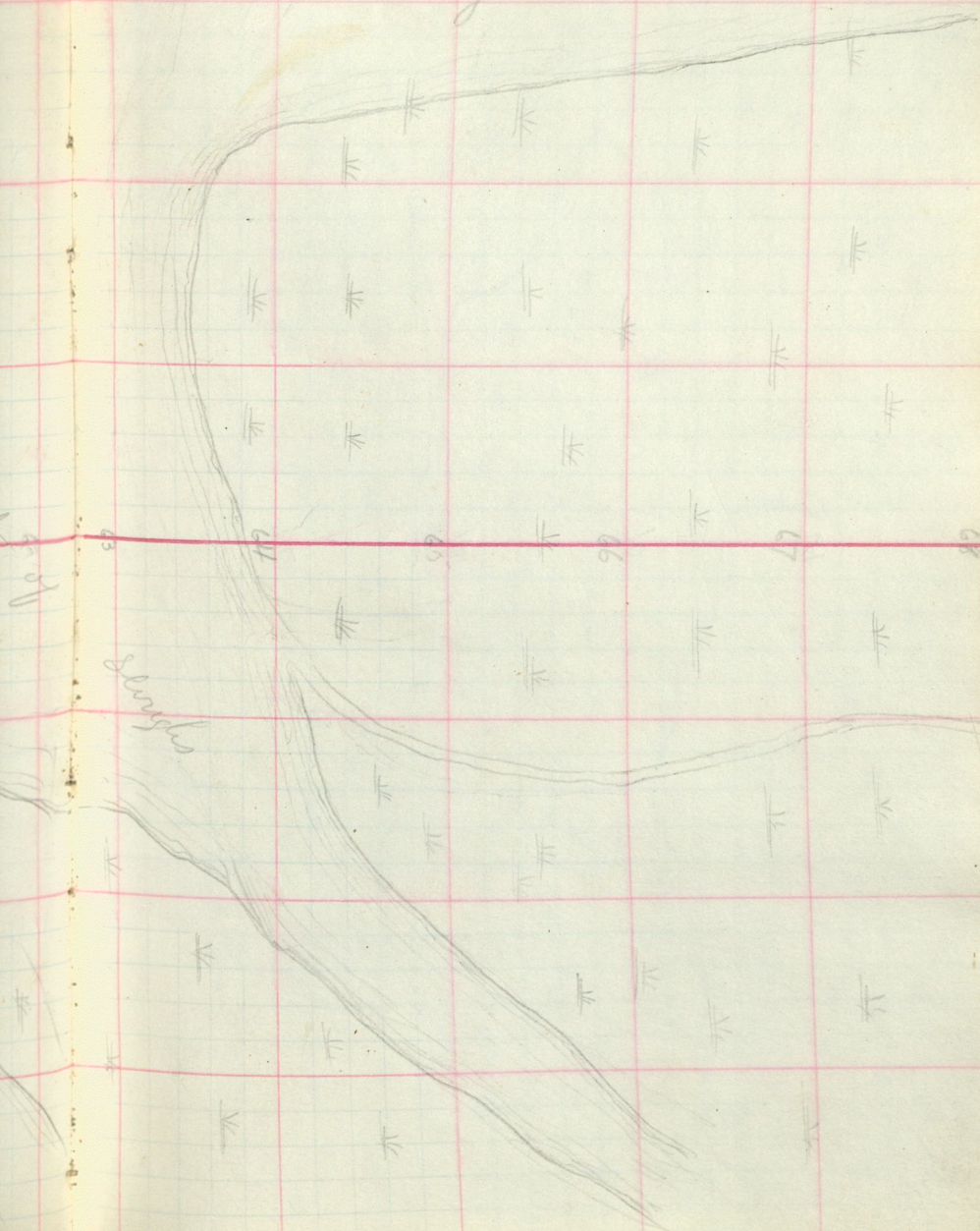
Bay

Mouth of

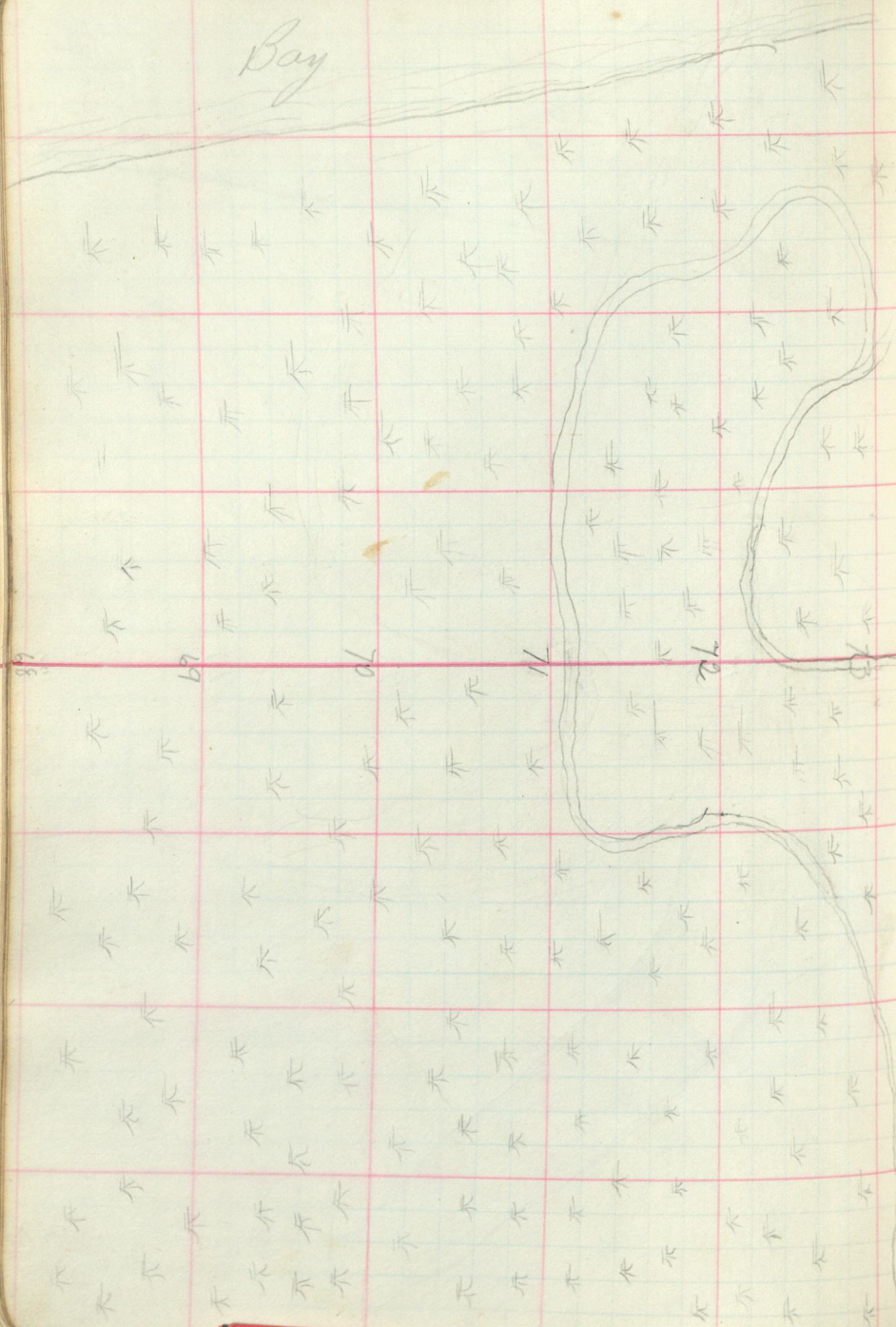
March

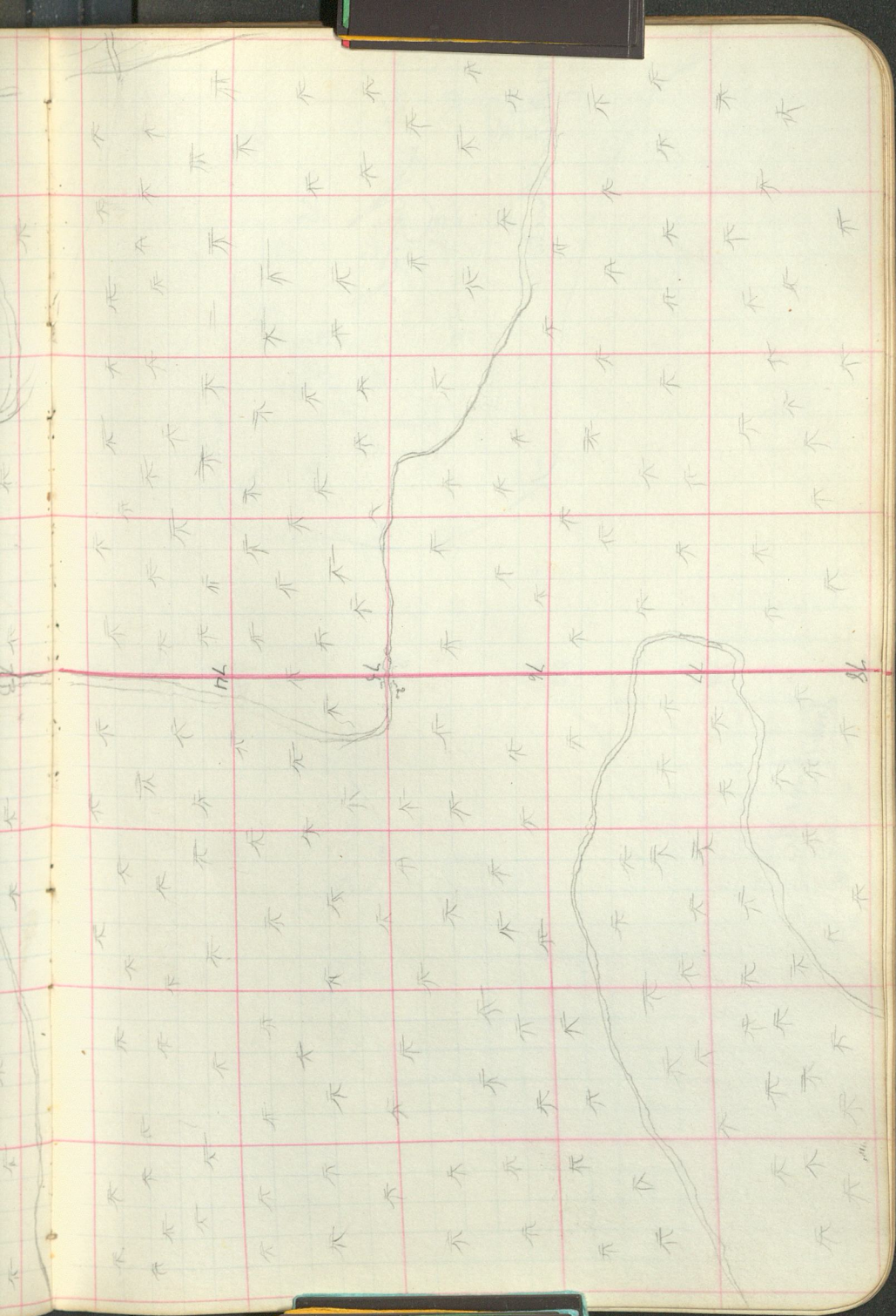


Bary



Bay

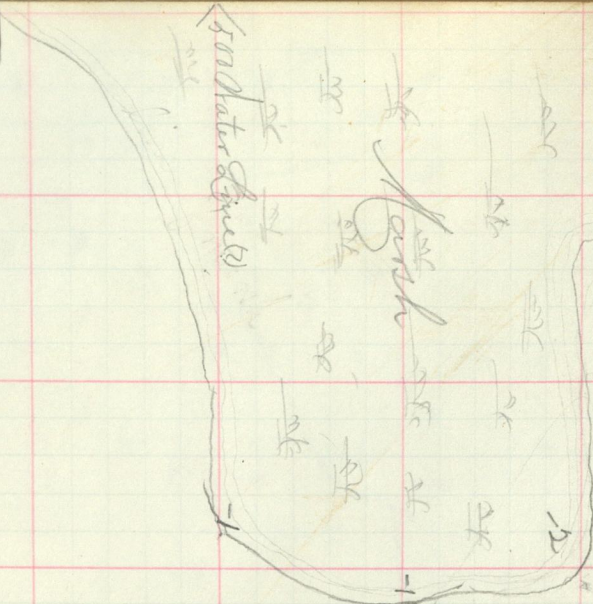




2600 plates (Sims?)

Graduated Series

March



83
82
81
80
79
78

Level Mean

line of mean

76

5500 ft. (19)

June

5550 water line (19)

5600 water line (19)

83

83

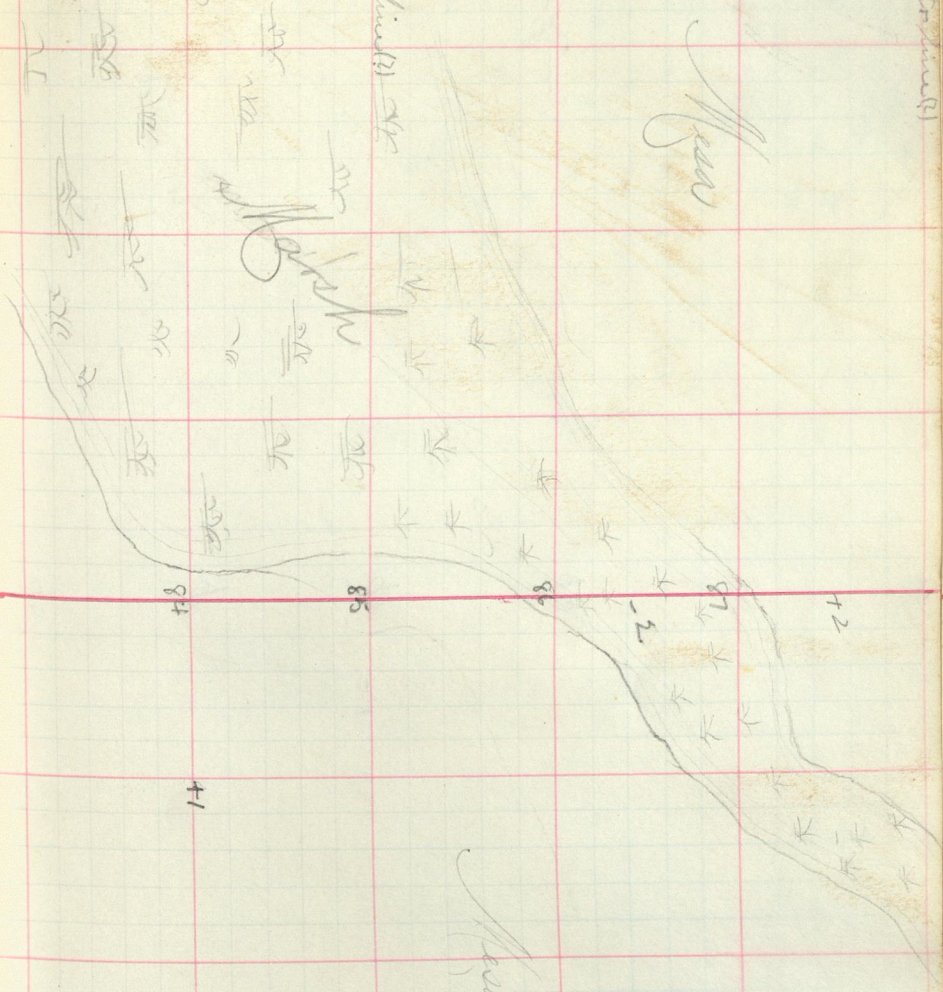
83

83

82

81

June

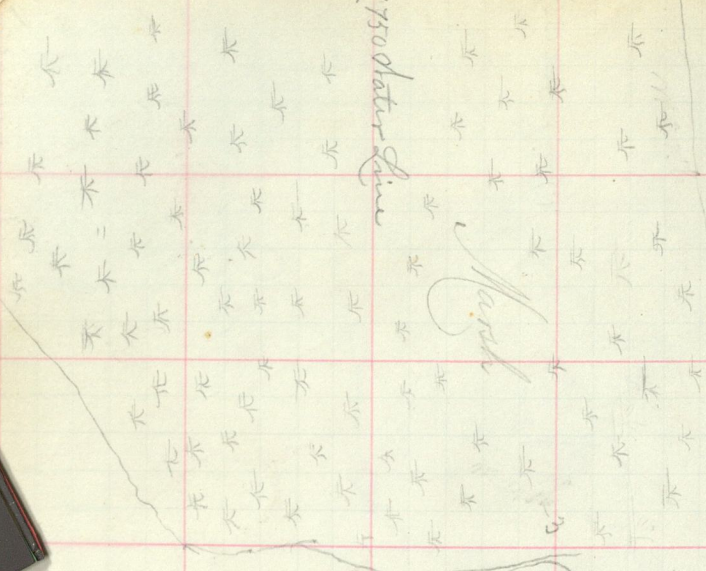


760

Pool

Marsh

1750 datum line



12

Druck Area

Druck Area Oct. 7

93

92

91

90

89

88

1750 Otator Line.

1750 Otator Line.

00

98

00

-4

+

97

-3

Mean

96

-2½

+2

-200

+4

95

-2

94

93

+2

104

103

102

101

100

99

98

Legel

Moran

Thursday Oct. 1.

08

109

06

108

05

107

06

Devel

Meer

00

106

08

06

105

08

104

160 water level
-15

< 700 north line
Pl. front 20

00

113

-2

Nea

-1

112

-3

111

00

110

109

108

Shirley

< 600 meters line
-4

Point

00

-1 1/2

00

117

117

-1 1/4

116

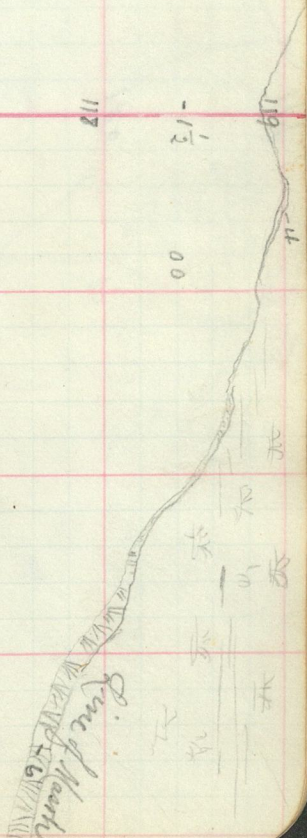
-2 1/2

115

-2

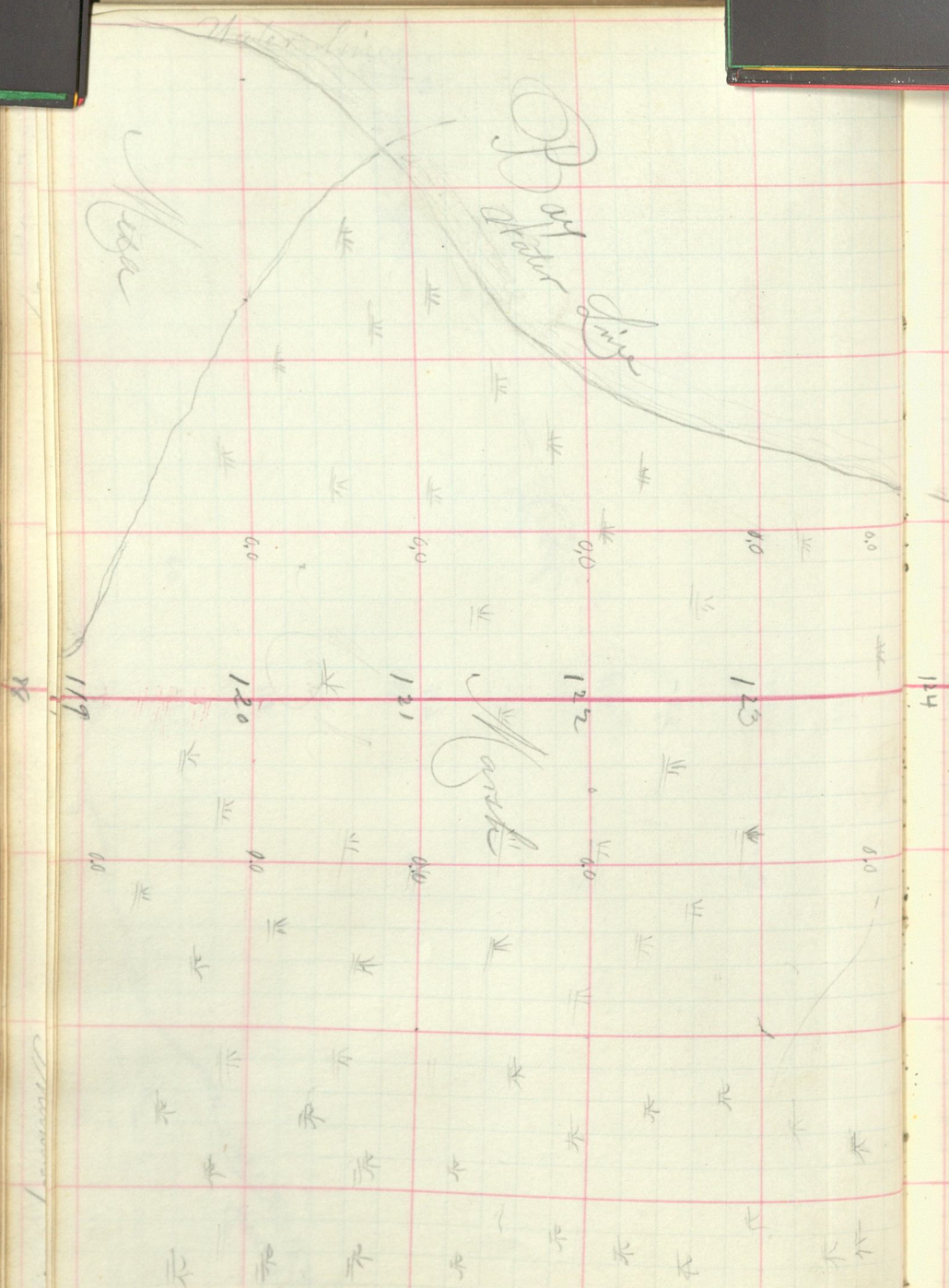
-1 1/2

-1

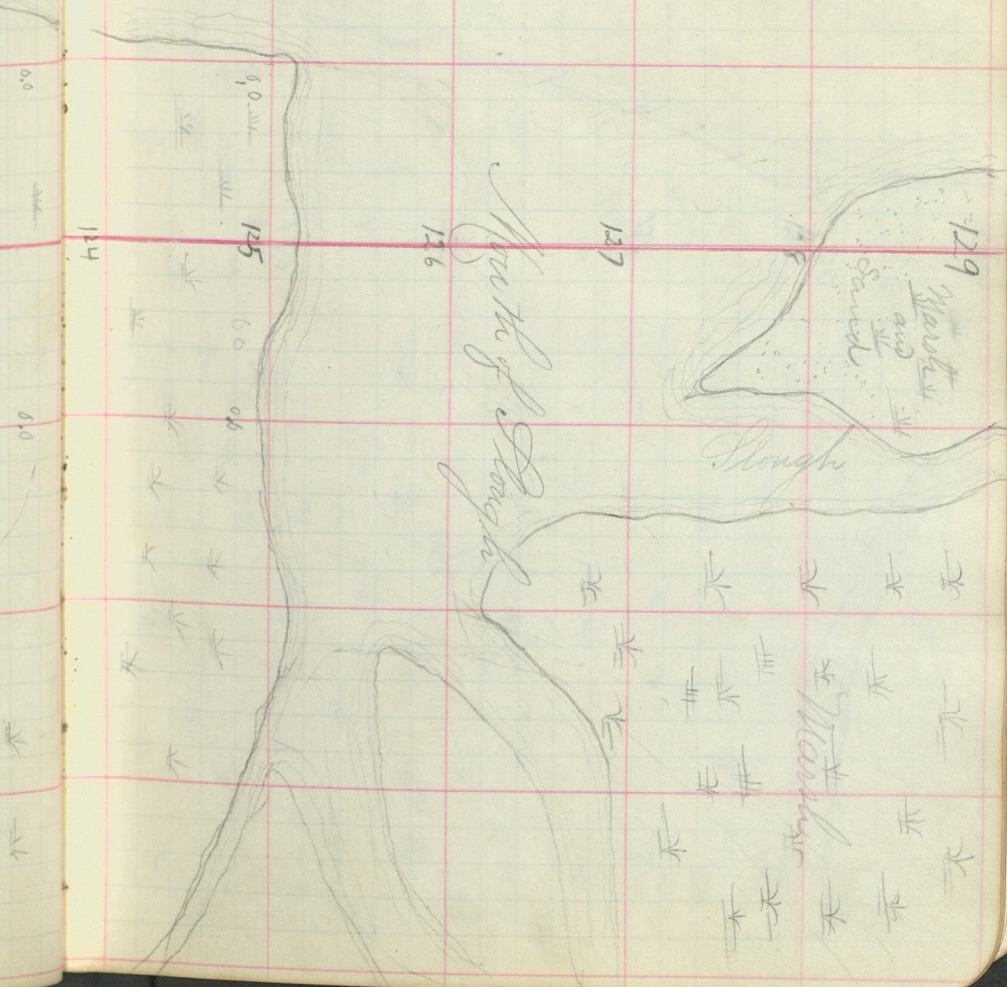


460 meters line
-15

114



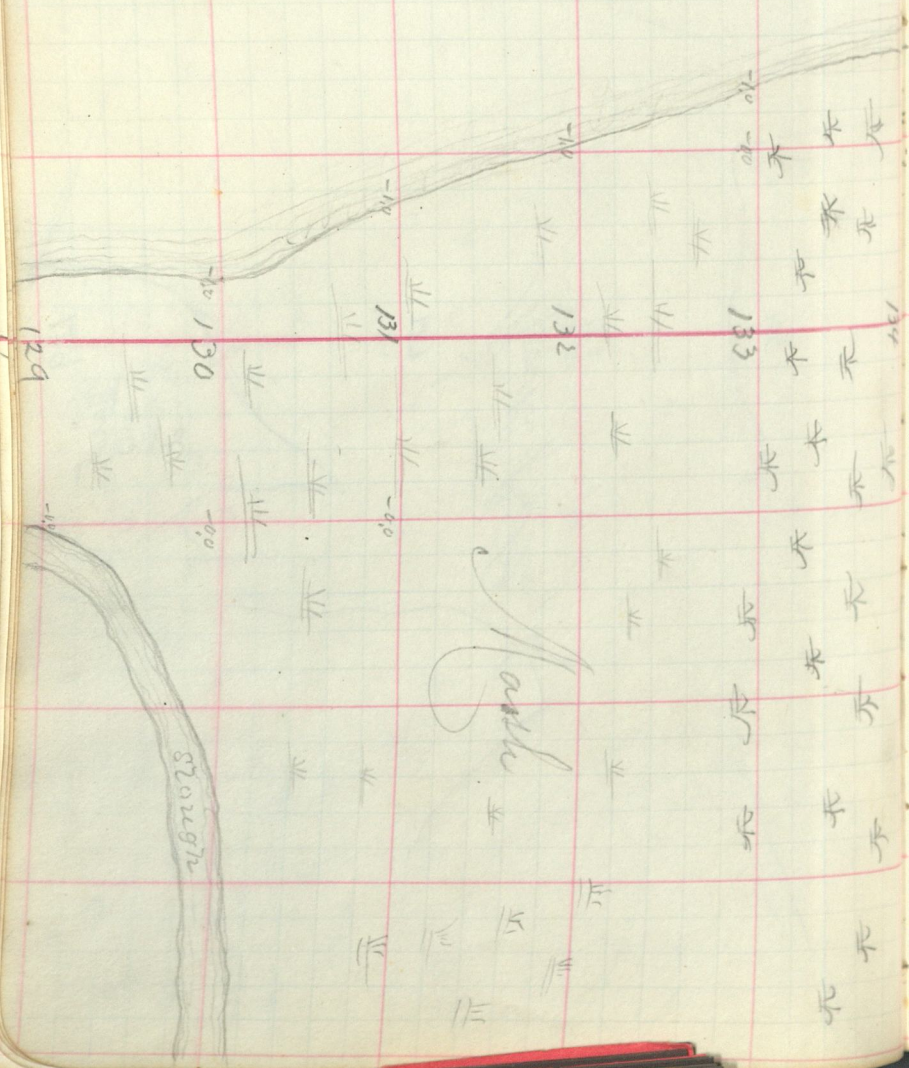
Bay



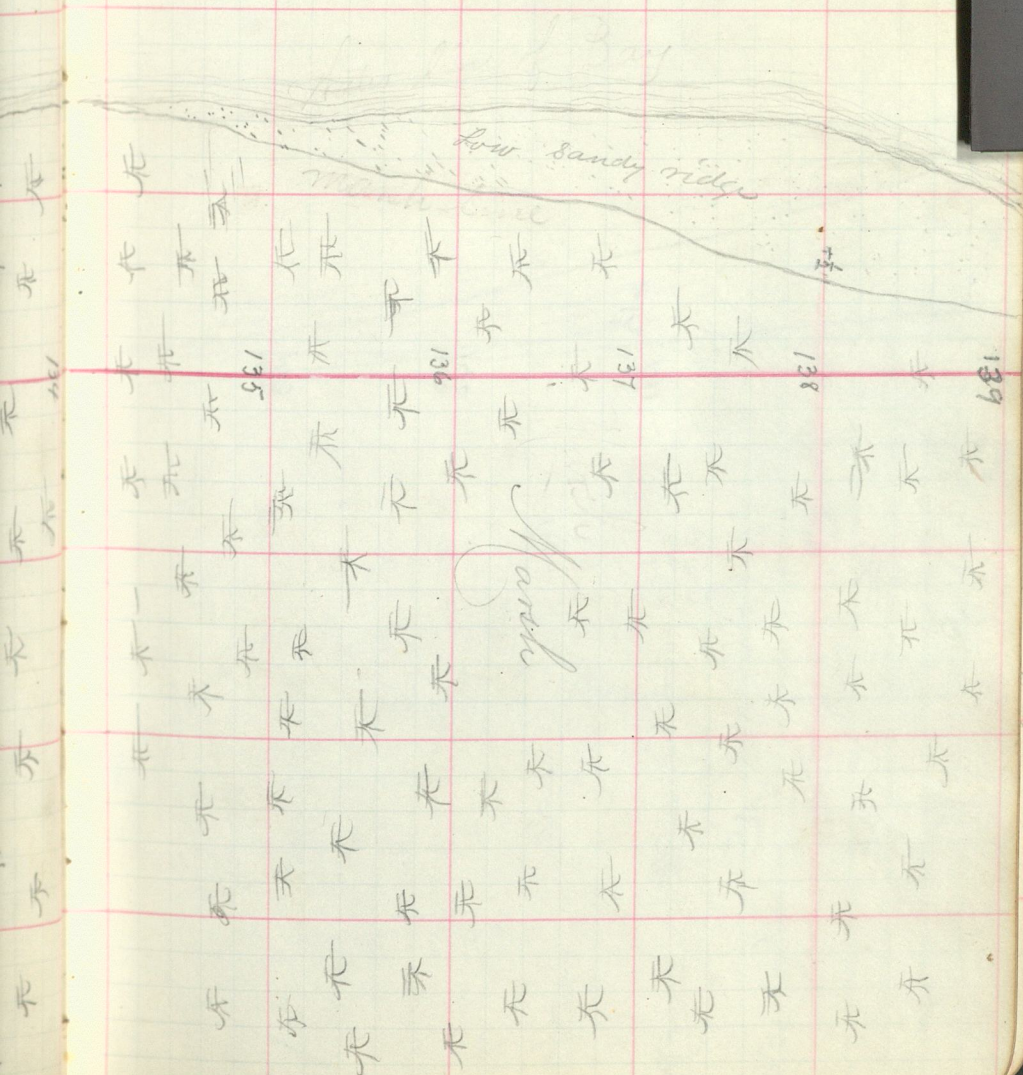
100

100

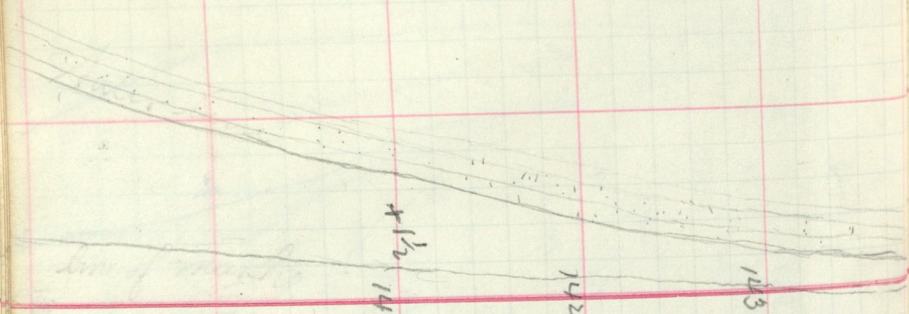
Stouffville



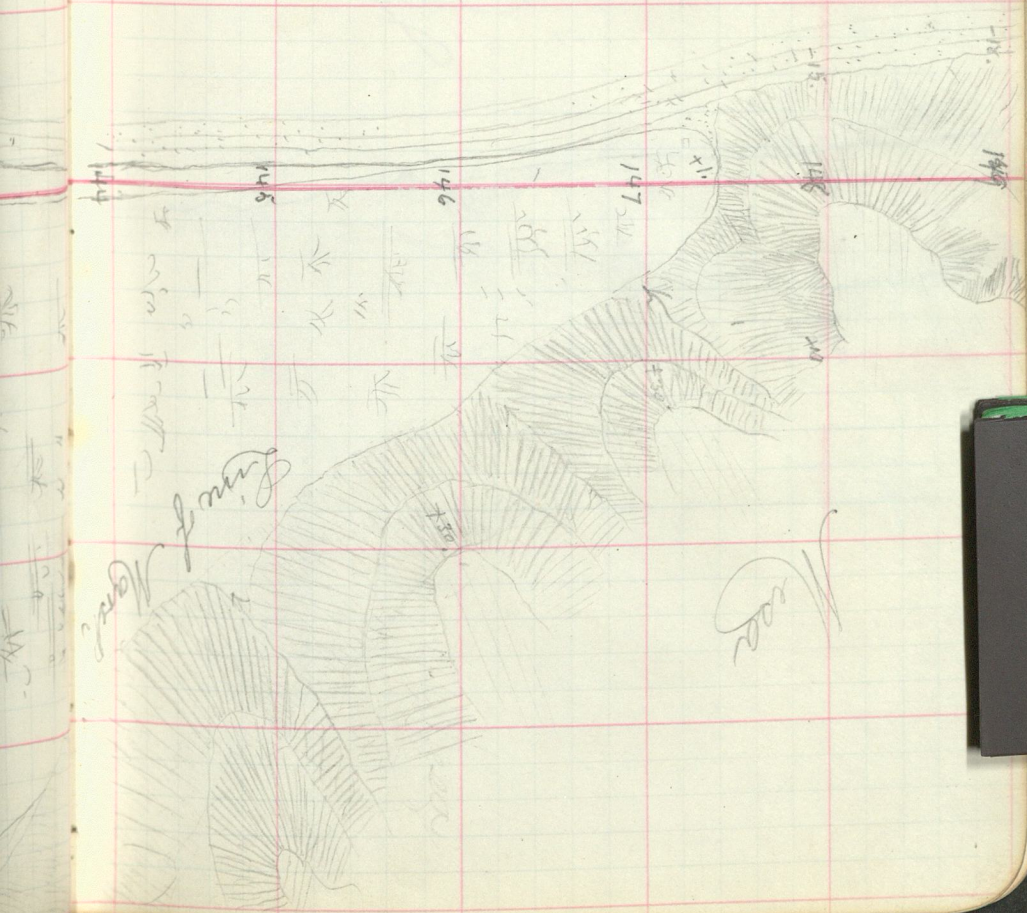
San Diego Bay



San Diego Bay

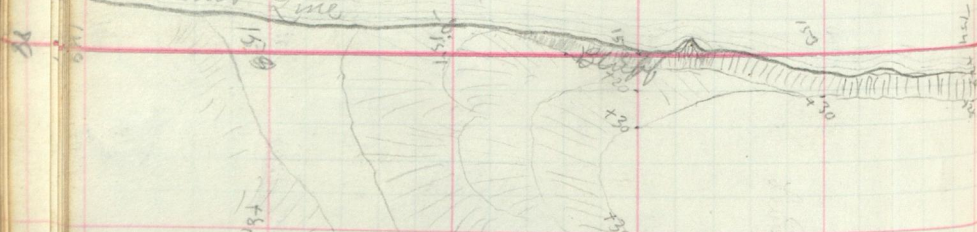


Thursday Oct. 7.

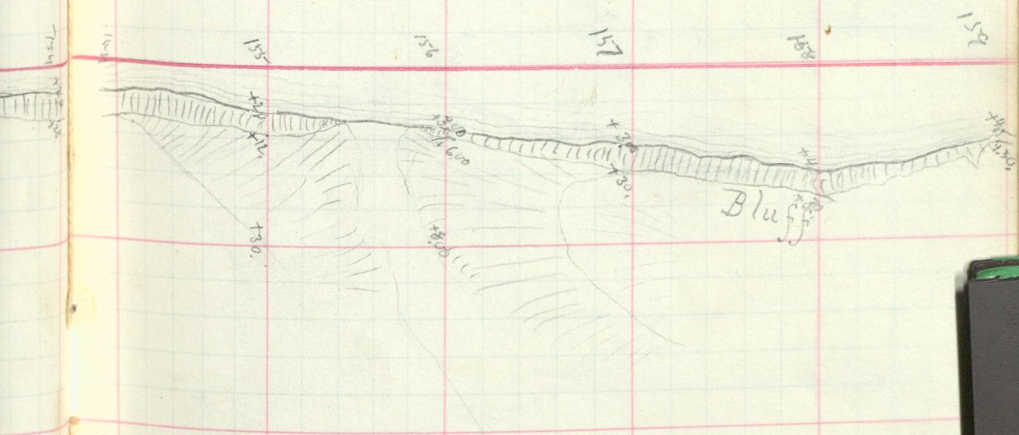


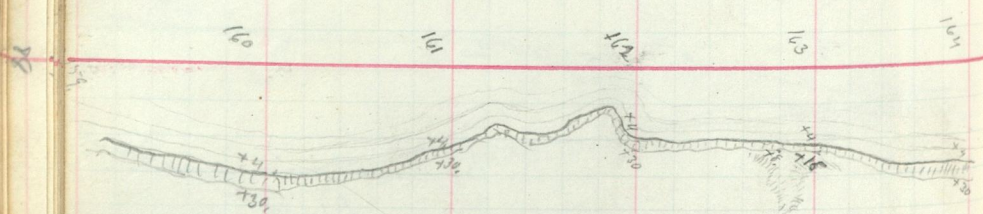
Bay

Water Line



Level Near



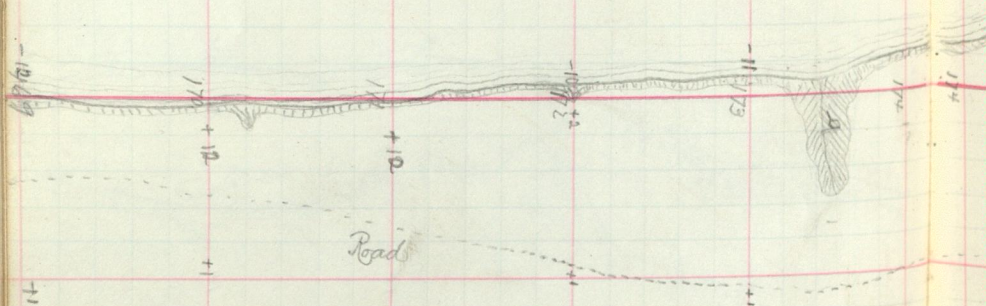


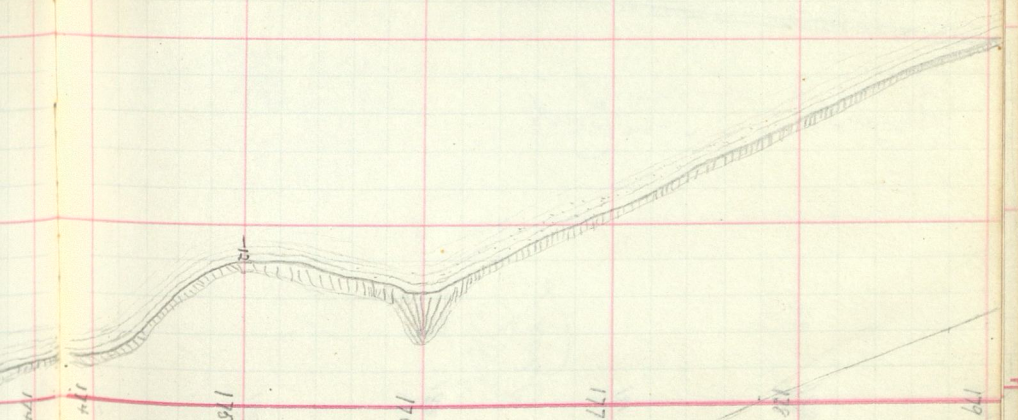
Level Area

Level Mesa

Road

Road





Chaco and Pacific Survey

High Water Line

Road

Level Area

179

180

181

182

183

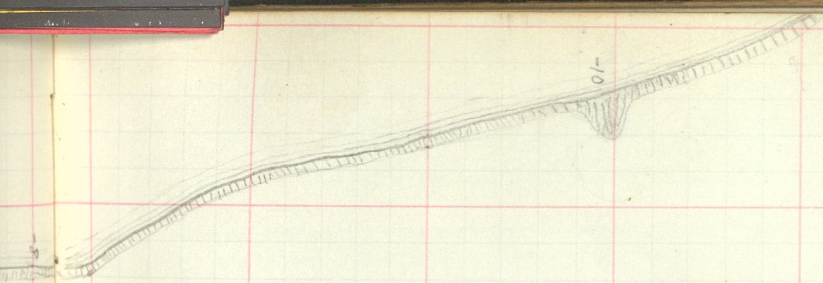
184

00

00

00

00



Road

East
 West

184

185

186

187

188

189

0.0

1

437 State Ave
-10

Road

194

193

192

191

190

19

18

Level New

194

195

196

197

198

199

1

1

1

1

1

1

575 Stater Lane

218

202

+2

201

200

199

19

18

Good

-2

-1½

206

+2

207

208

209

205

+2

-1

Pad

2/3

2/2

2/1

2/0

2/9

Pad

650 *Junco*
Twp. P. 8

Quaking

Line of North

North

Channel

Road

214

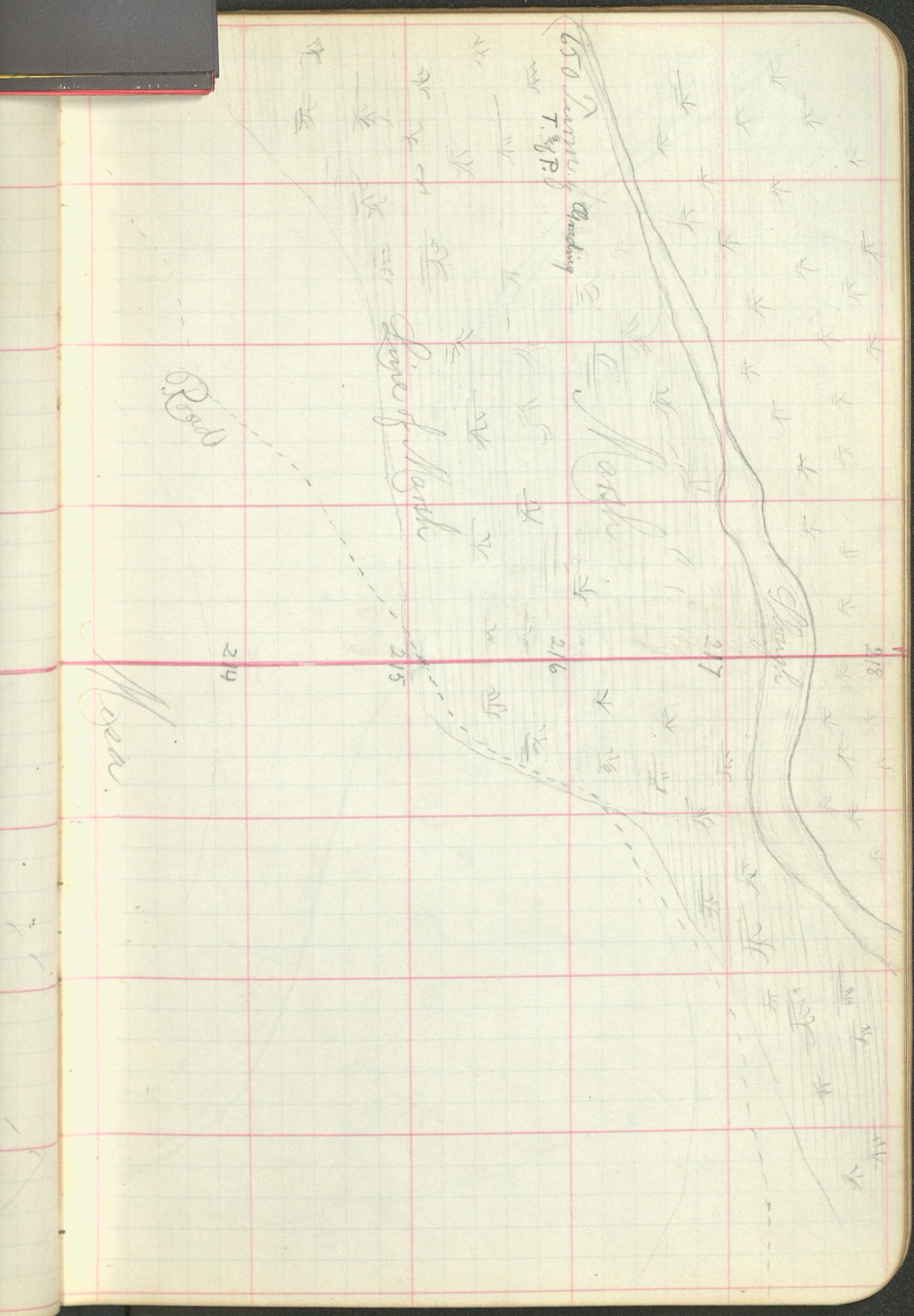
215

216

217

218

Open



Bay

220

221

222

Bluff

Water Line of

North

San Diego Bay

228

227

226

225

224

223

Bay

23

232

231

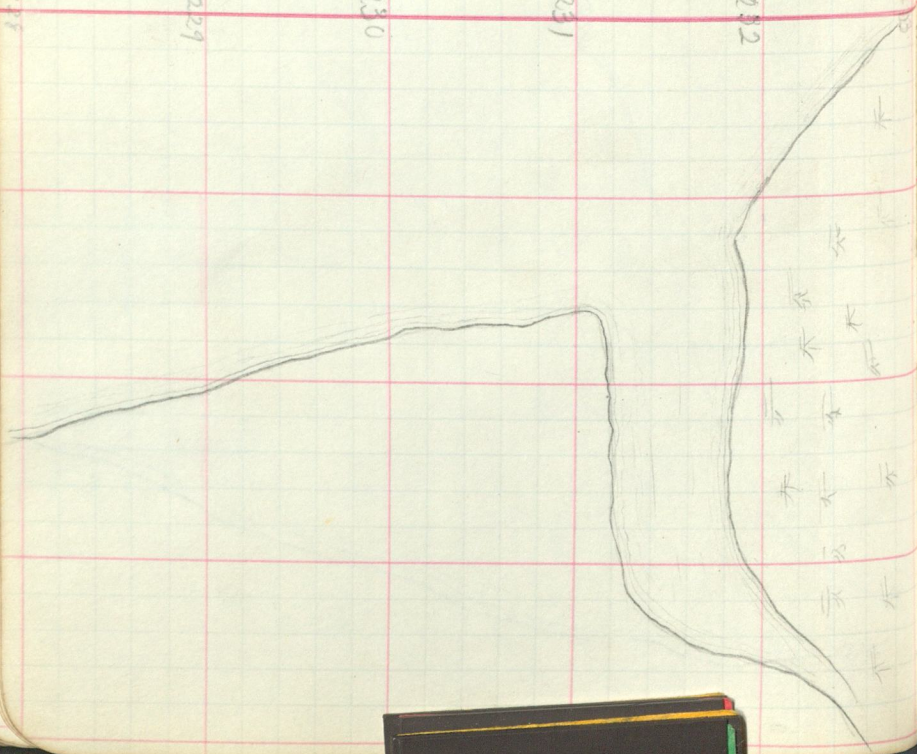
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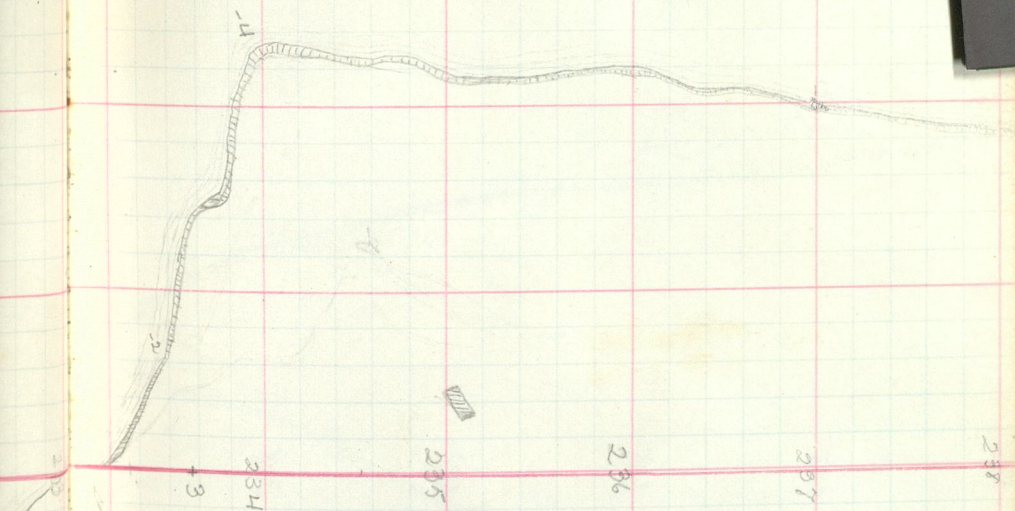
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228

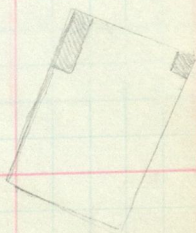
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226

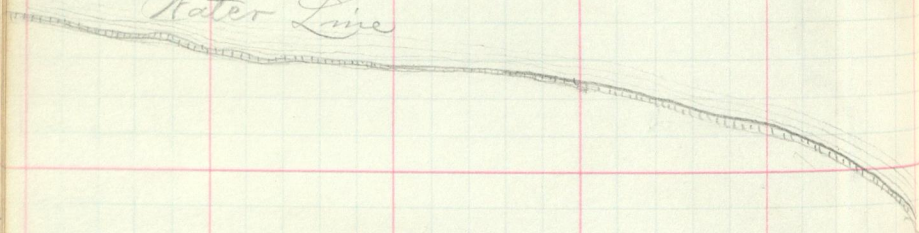




Arch



Water Line



Handing

Level Meter

202

201

200

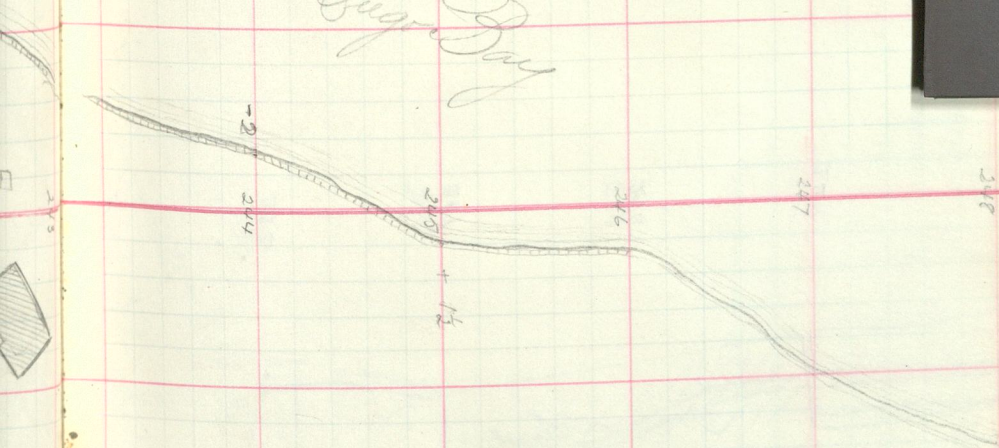
199

198

197

196

San Diego Bay



253

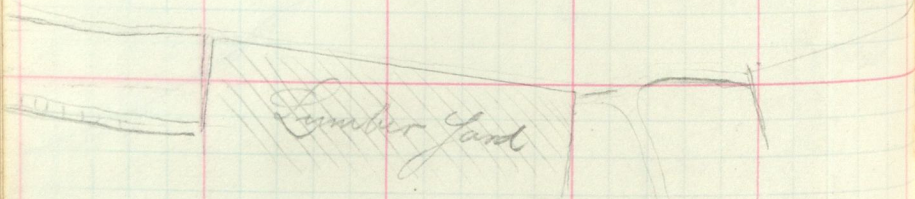
252

251

250

249

149



Sand Digger Bay

267

267

266

265

264

263

+1/2

264

264

264

263

262

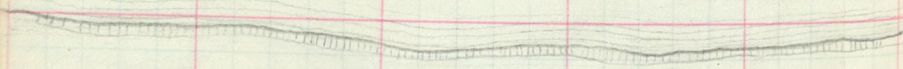
261

260

259

258

257



San Diego Bay

263

264

265



273

272

271

270

19

Summerland.

278.

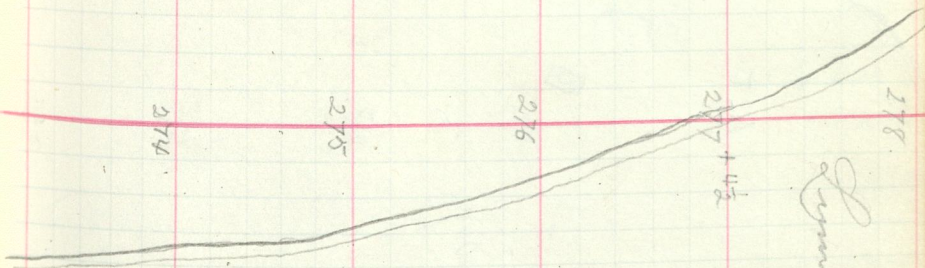
277 + $\frac{1}{2}$

276

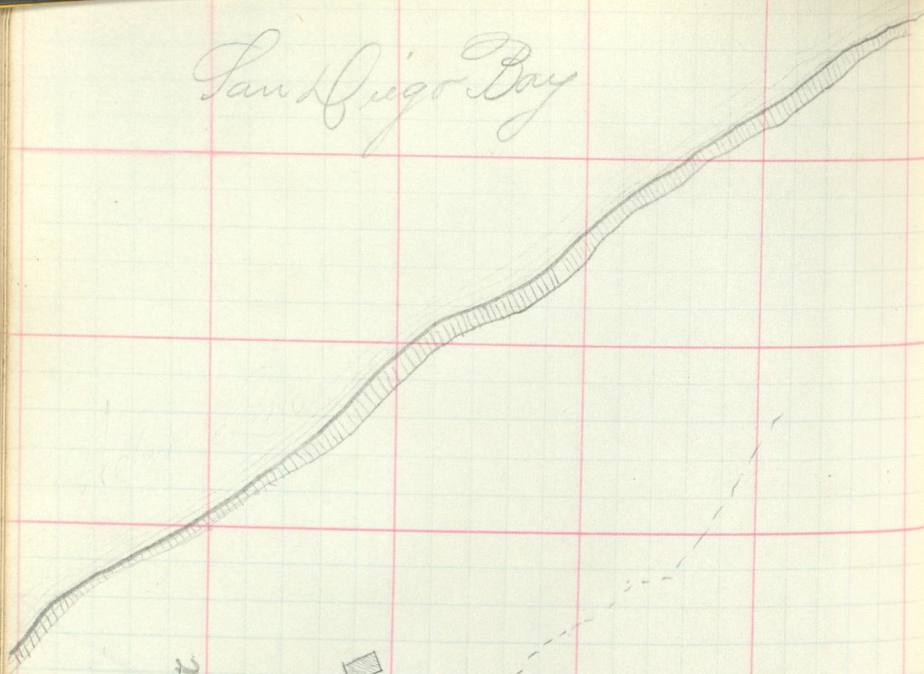
275

274

273



San Diego Bay



277



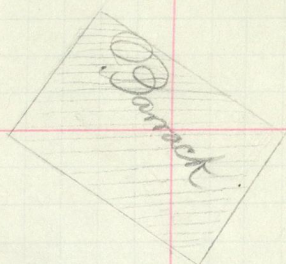
280

281

282

Road





Good

Good

287

286

285

284

283

282

292

291

290

289

288

Red

Head

San Diego Bay

500

297

296

295

294

293

292





Old Survey of Texas and Pacific

Road

$-\frac{1}{2}$

307 + 1

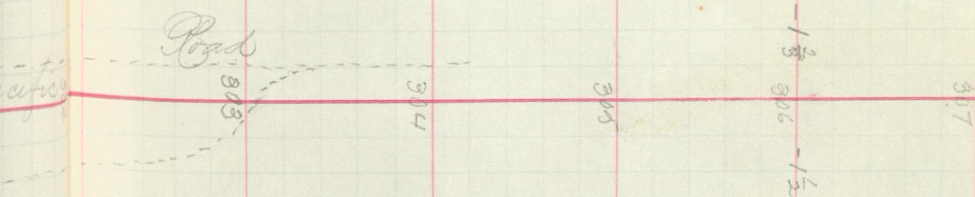
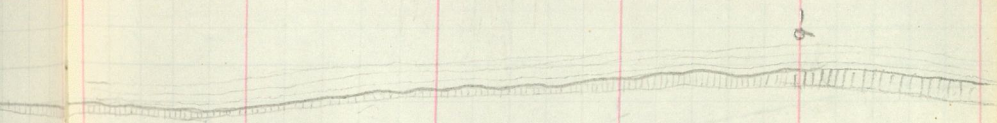
349

248

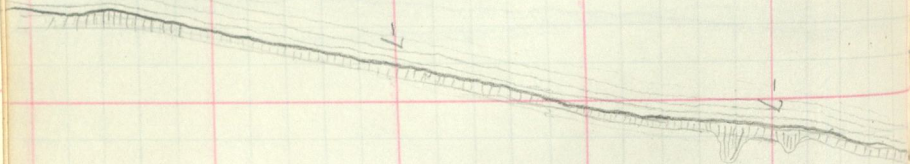
247

171

San Diego Bay



San Diego Bay



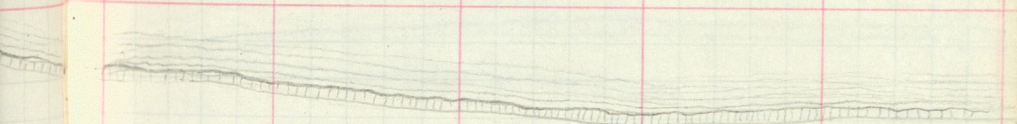
307

308

309

310

4



3/6

-4 1/2
3/4
-3 1/2

+4

Good

3/4

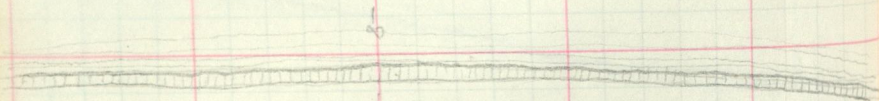
-2
3/3
-2 1/2

+3

3/2

3/1

San Diego Bay



Load

320

319

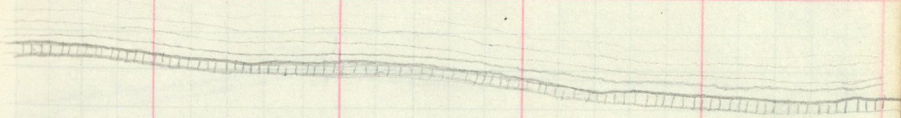
318 + 3 1/2

317

316

+ 2

San Diego Day



Road



322

324

325

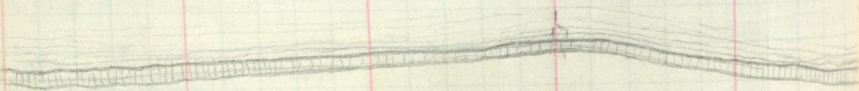
-3
326-04

-2307-1

+4

+6

San Diego Bay



Road

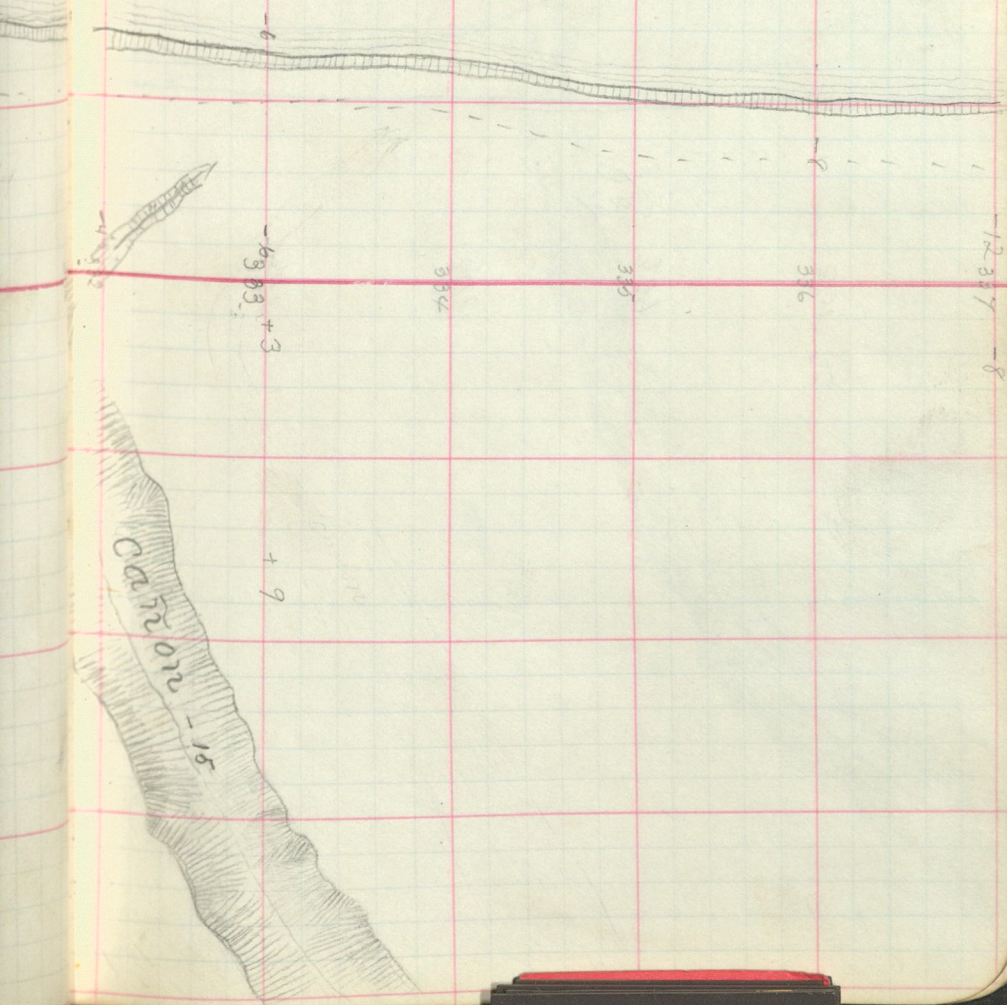
-4 - +2 - 1 3293

-6¹/₂ 330

+5 331 +6

328

327



S. D. Bay

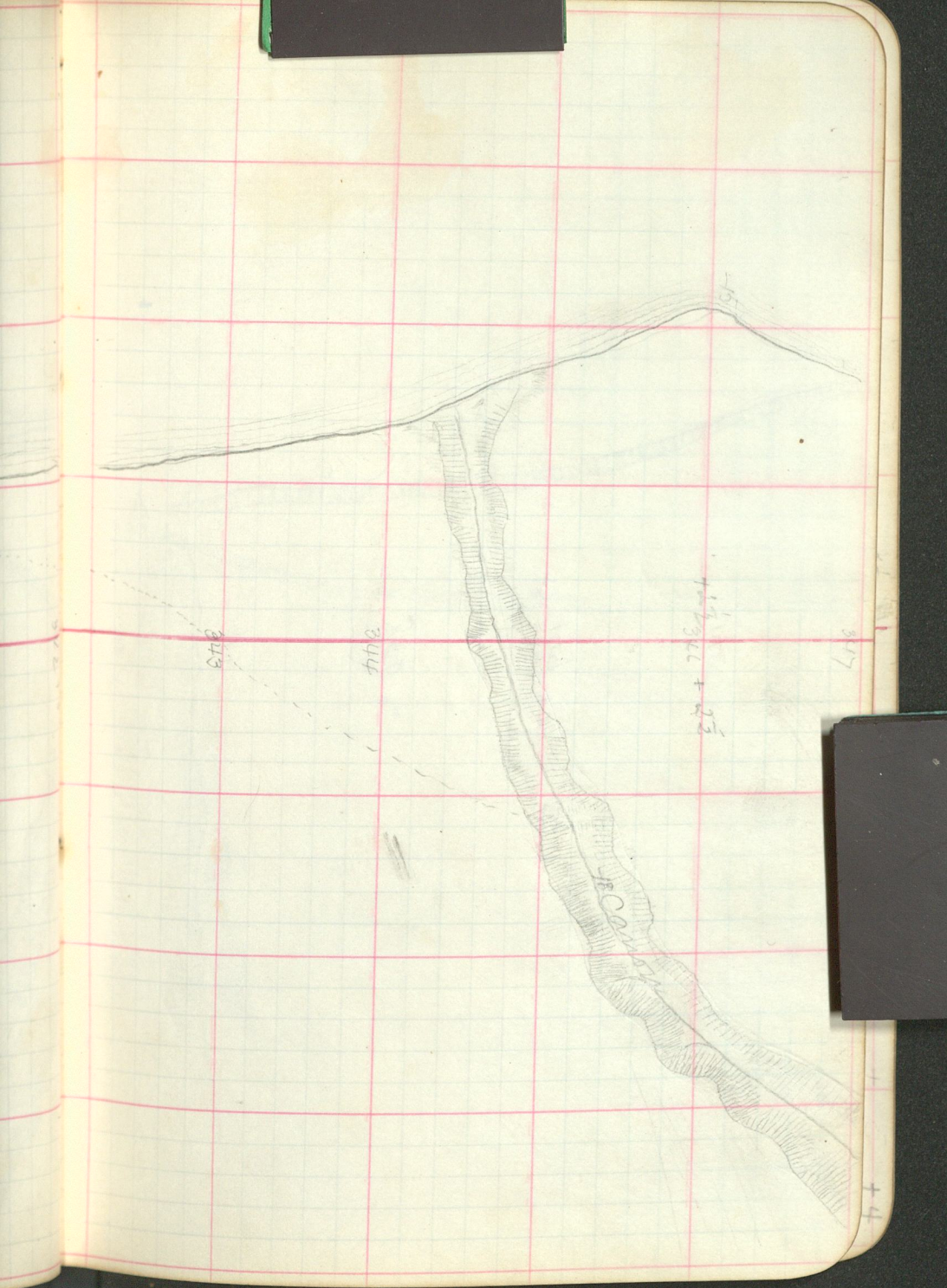
Lead

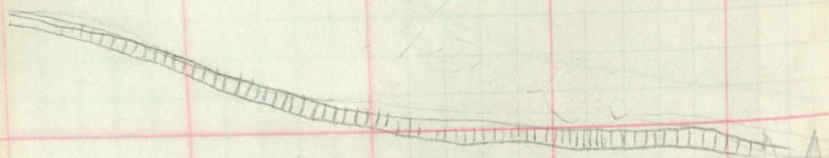
338

339

340

341





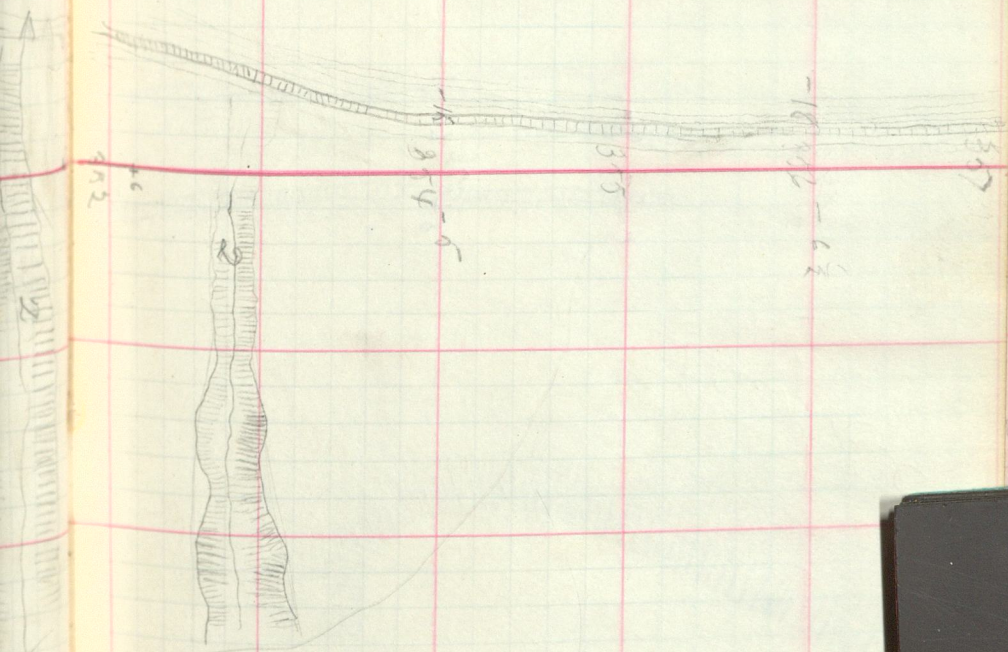
951

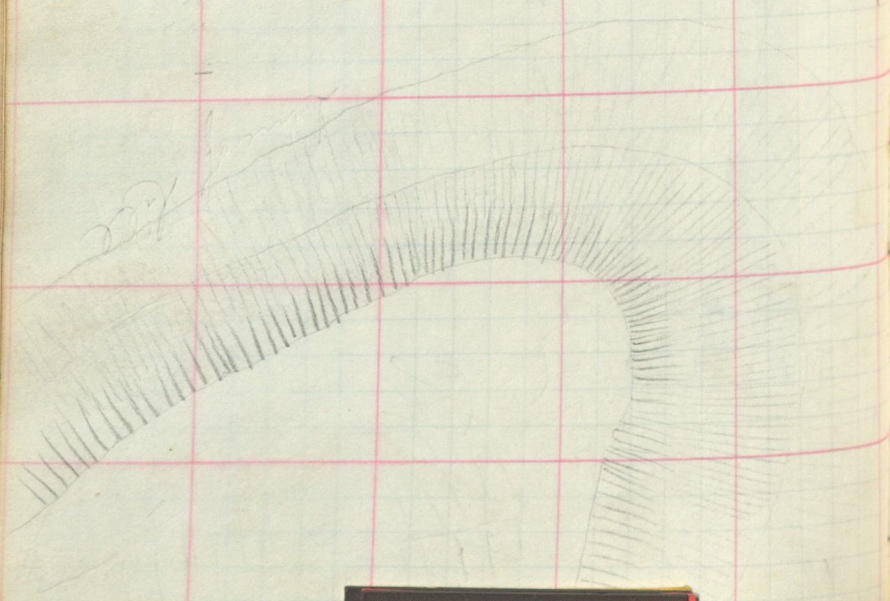
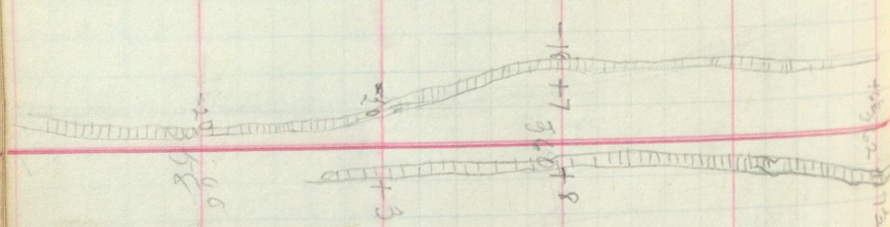
360

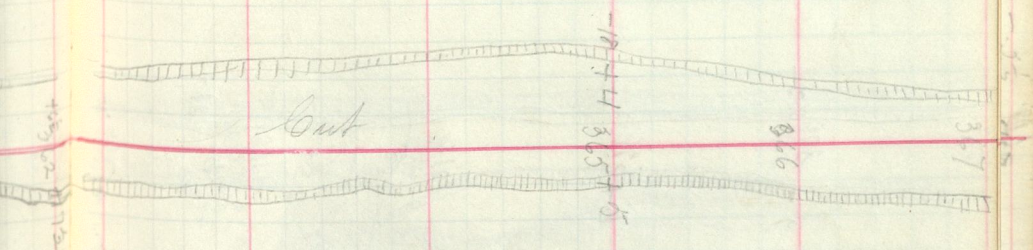
+3
149 +3



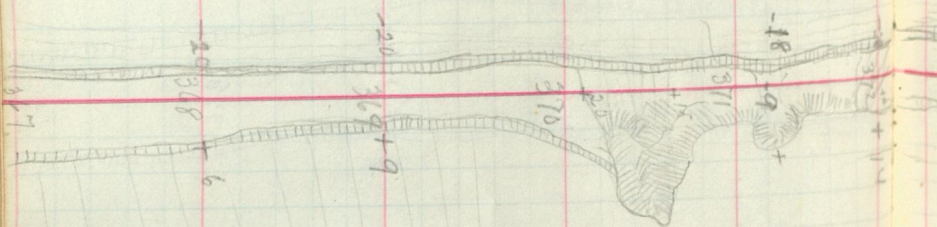
148



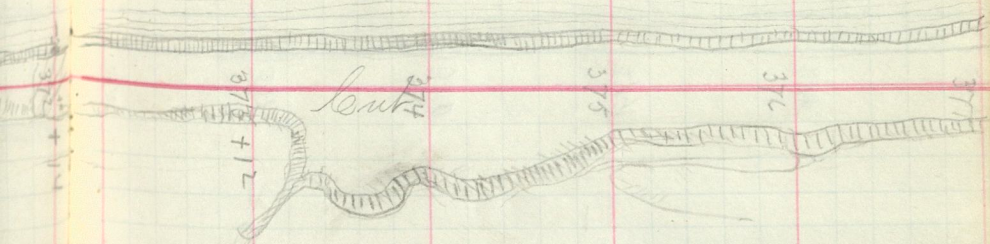


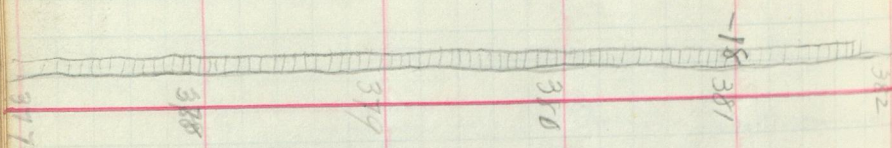


Map

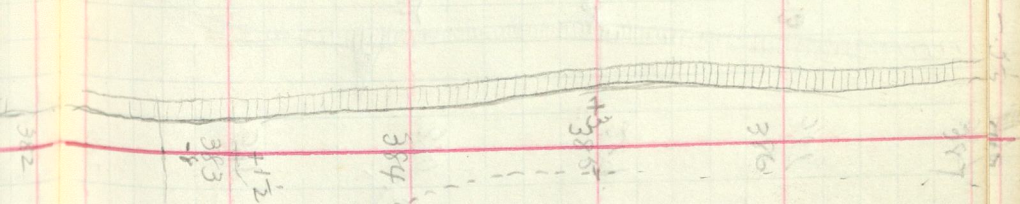


San Diego Bay

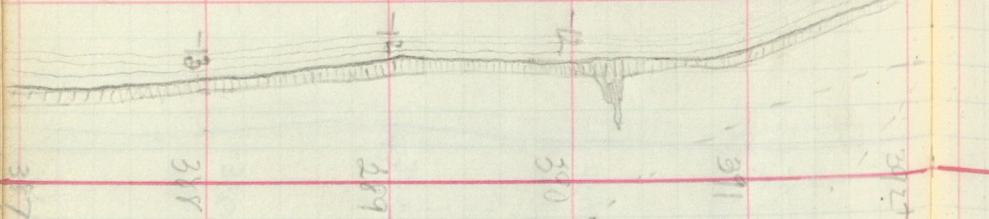




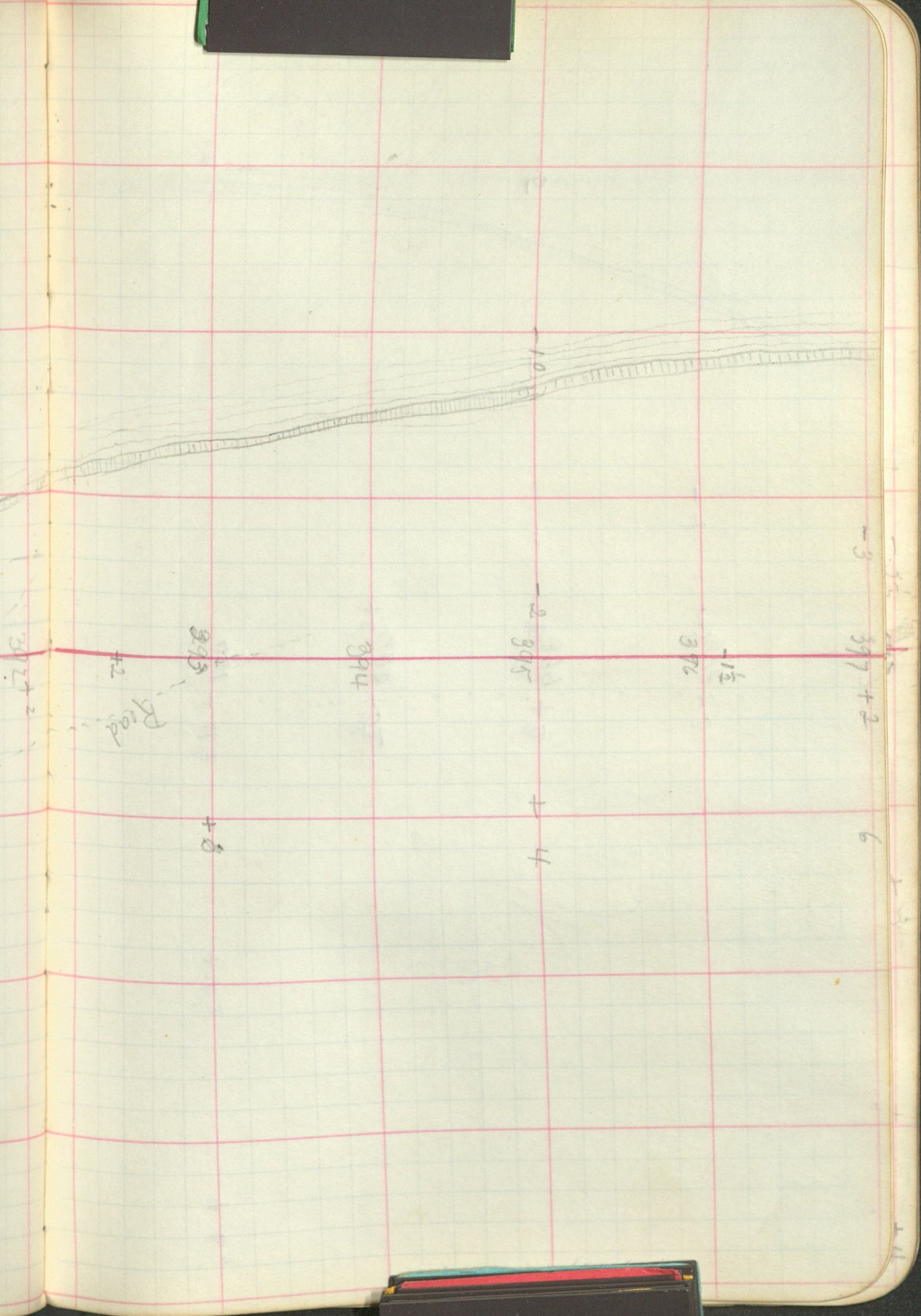
Friday Oct. 8 - 1880

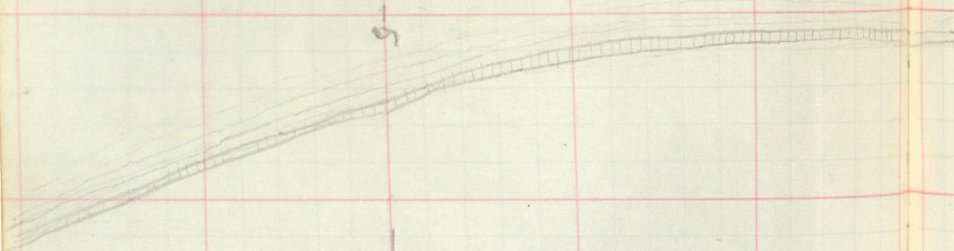


Water Line



500 Line of Hills





5

3

4

$+398 + 3$

$+399 + 3$

$+2480 + 32$

$481 + 4\frac{1}{2}$

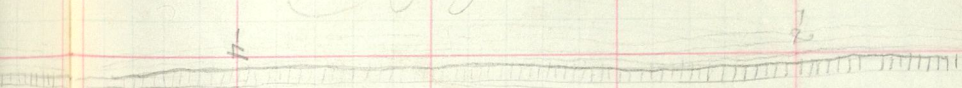
$+4\frac{1}{2}$

$+6\frac{1}{2}$

377
37

Low Mesa

Log 19



403

403

404

$-\frac{1}{2}$
 $+\frac{1}{2}$
405

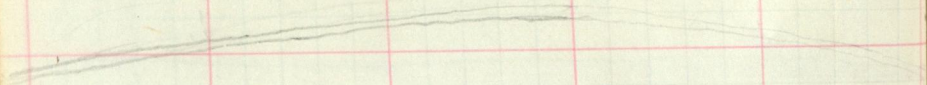
406

407

Road

$+\frac{1}{2}$

Level 1000



402

$4\frac{1}{2}$

411

-5

-1

$7\frac{1}{2}$

410

-7

$4\frac{1}{2}$

409

$4\frac{1}{2}$

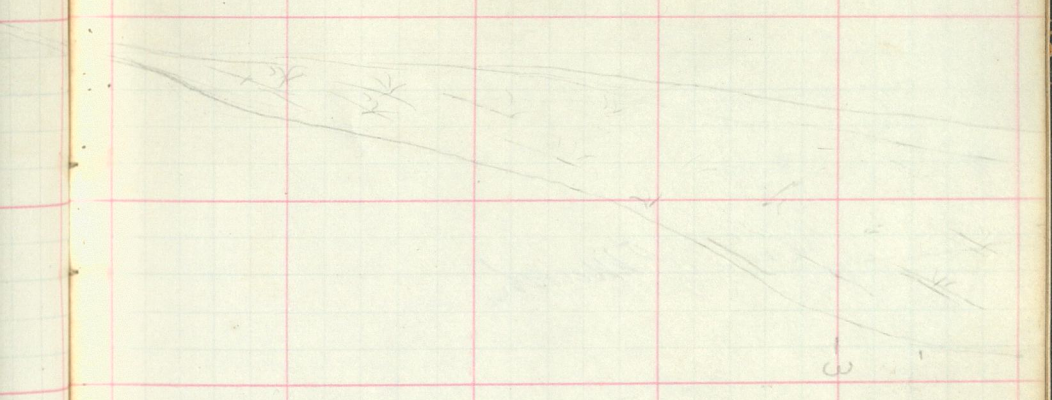
-2

408

-2

407

37



- 3 7
417

+ 3

+ 4

416

415

- 1 2 4 14
1

- 3 413 - 12
+ 2 1/2

412

Line of Marsh

37

41

41

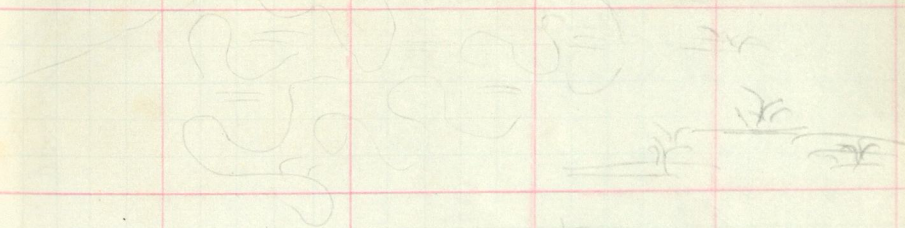
41

41

41

41

Salt Flats



407

1/2

408

1/2

405

404

403

4

0.0

0.0

0.0

0.0

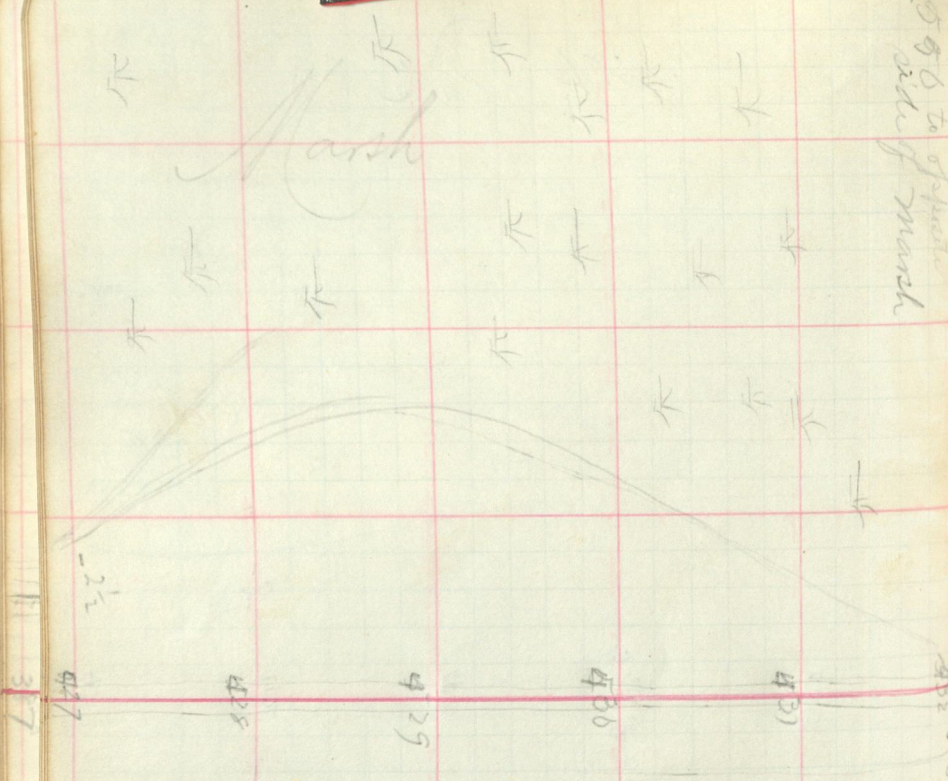
Rad

Rad

402

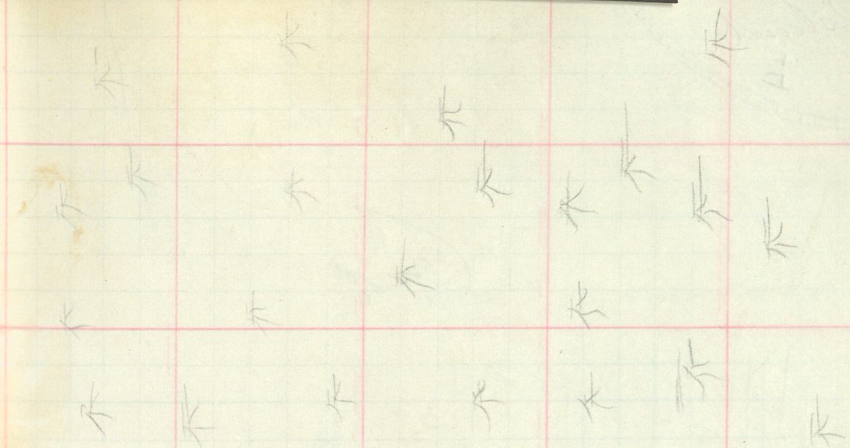
588 to 600
side of marsh

Marsh

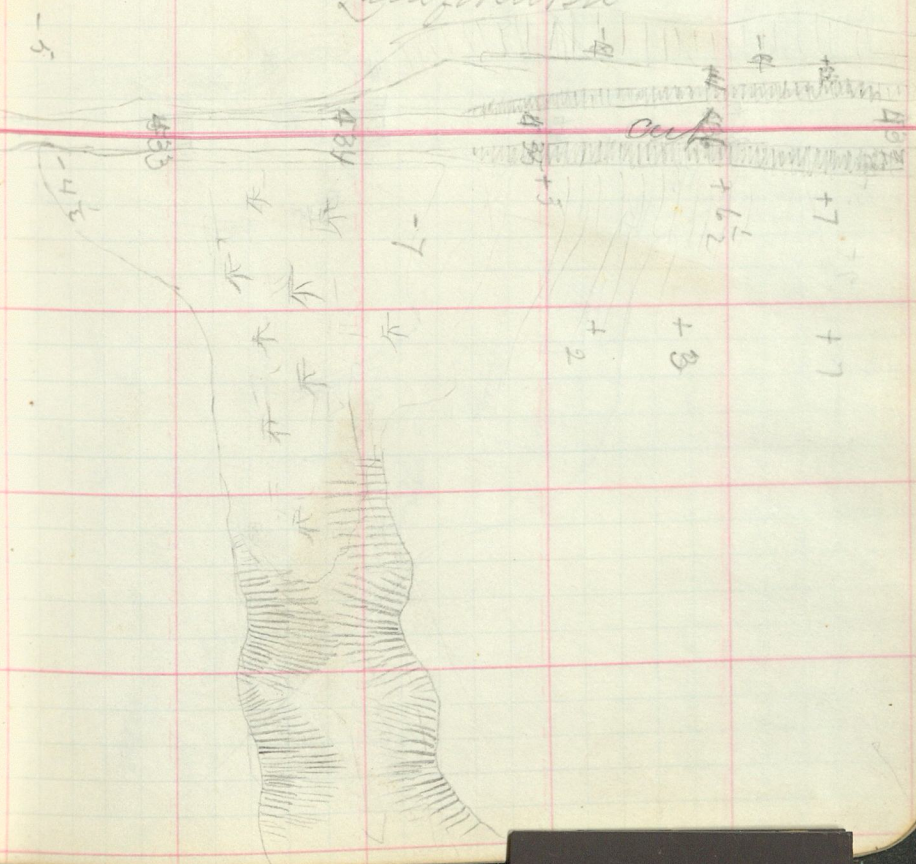


0.6

556 to
side of marsh



Longmarsh



2nd Island
+ 5

Marsh

37

437

+ 5
+ 6

438

664

577

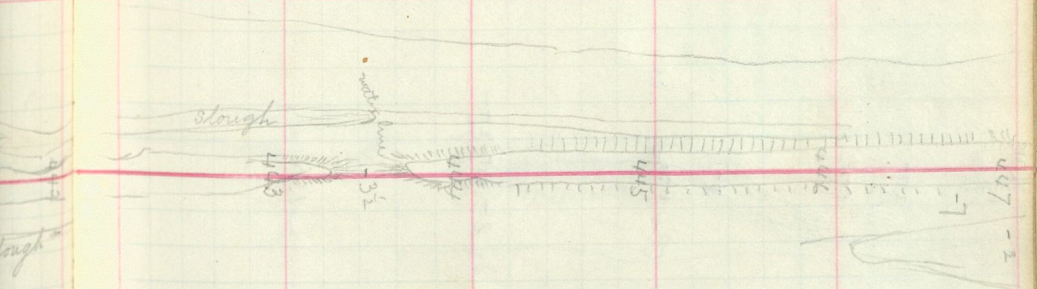
444

Slough

Slough

Slough

Flat + 3 above high water



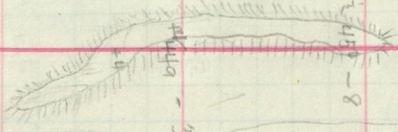
500 yards
March
Bill 80

11 37

1411

1413

1415



00

1419

9

1412

8

1411

1414

1

+3 Phosphoric acid

28 487 +1.00

487
9476

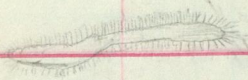
285-3

$+\frac{1}{2}$ 484 $+\frac{1}{2}$

483- $\frac{1}{2}$

+2 484-1

Old Spring
Old



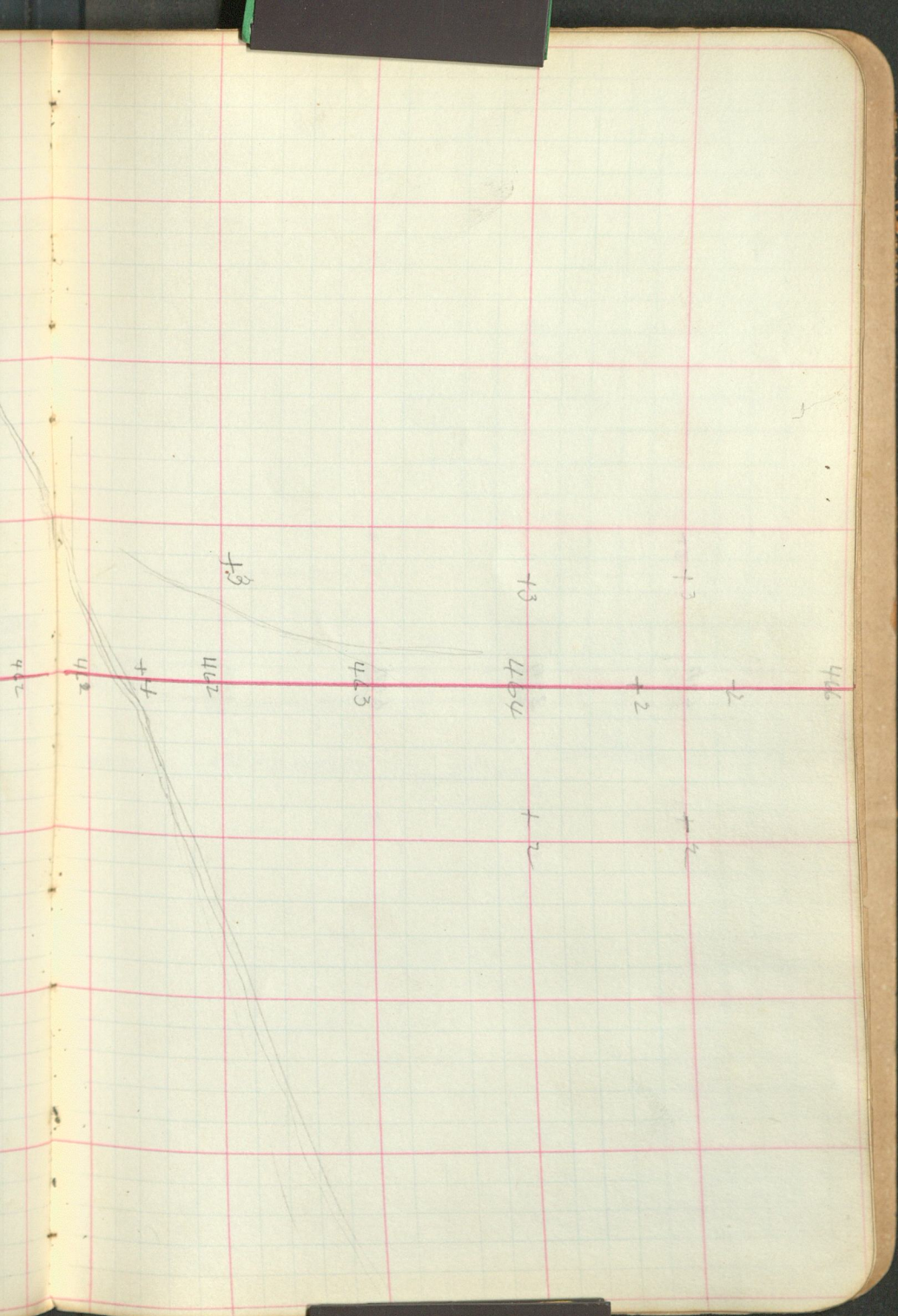
459

460

461

462

463



471
-1

470

469

468

467

+2

+2

11 37

1471

471

472

473

474

476

+1¹/₂

+1

+1¹/₂

-1¹/₂

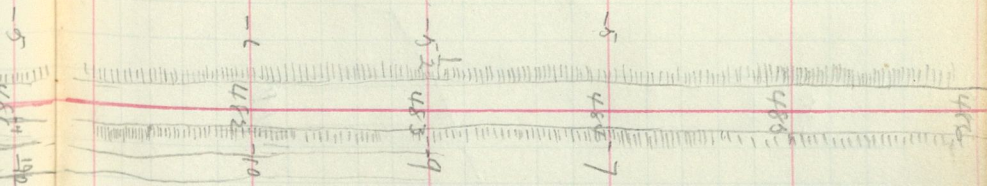
+2

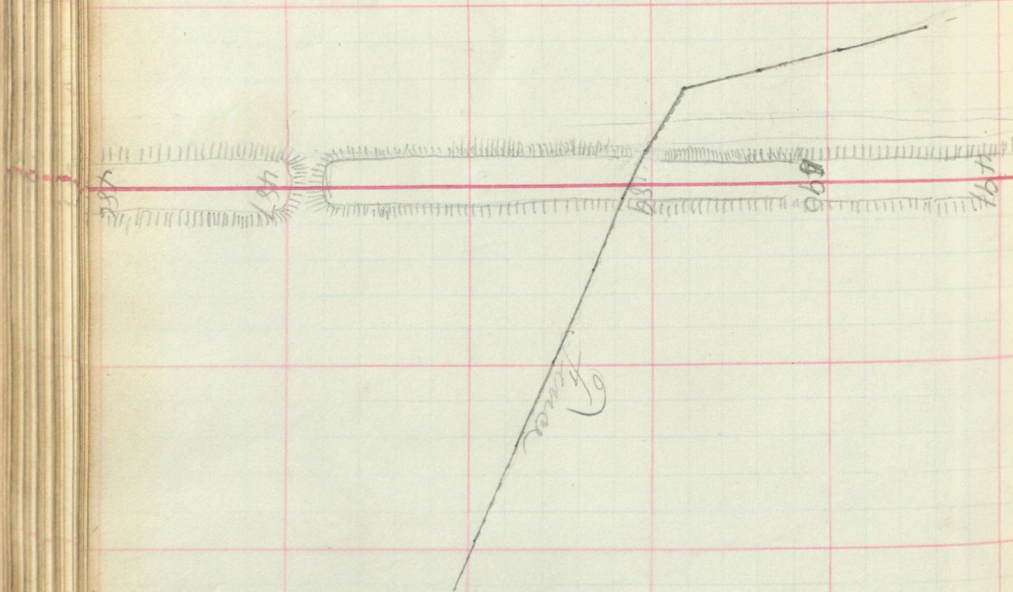
+1

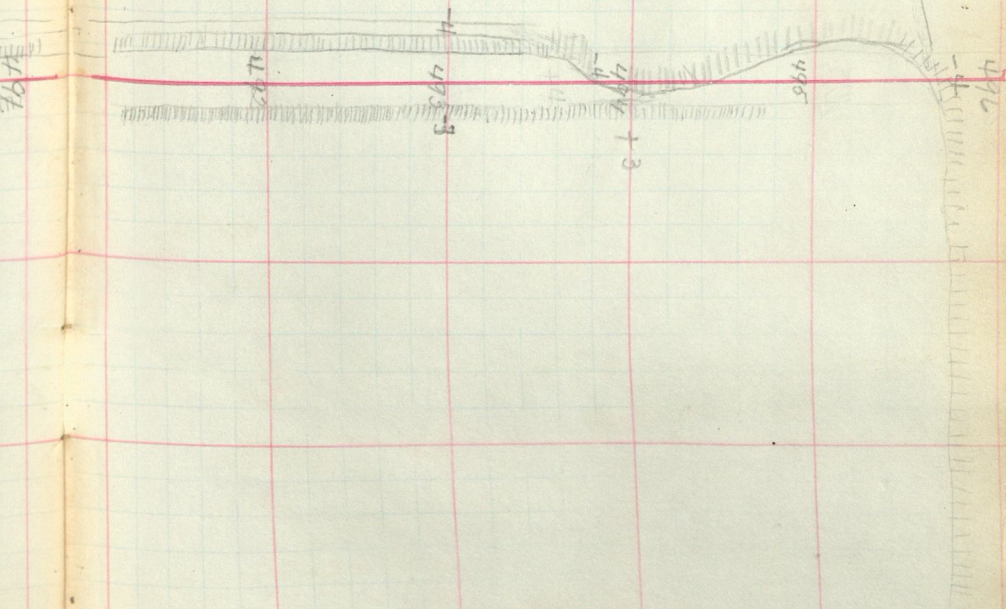
+1

+1

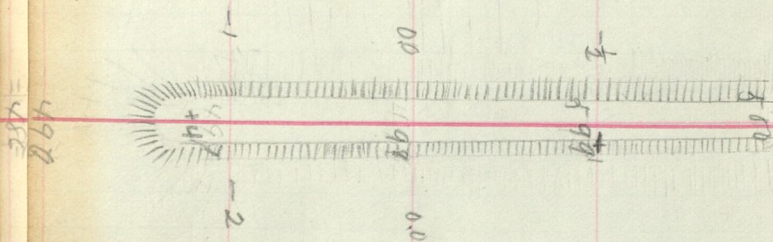
Read.

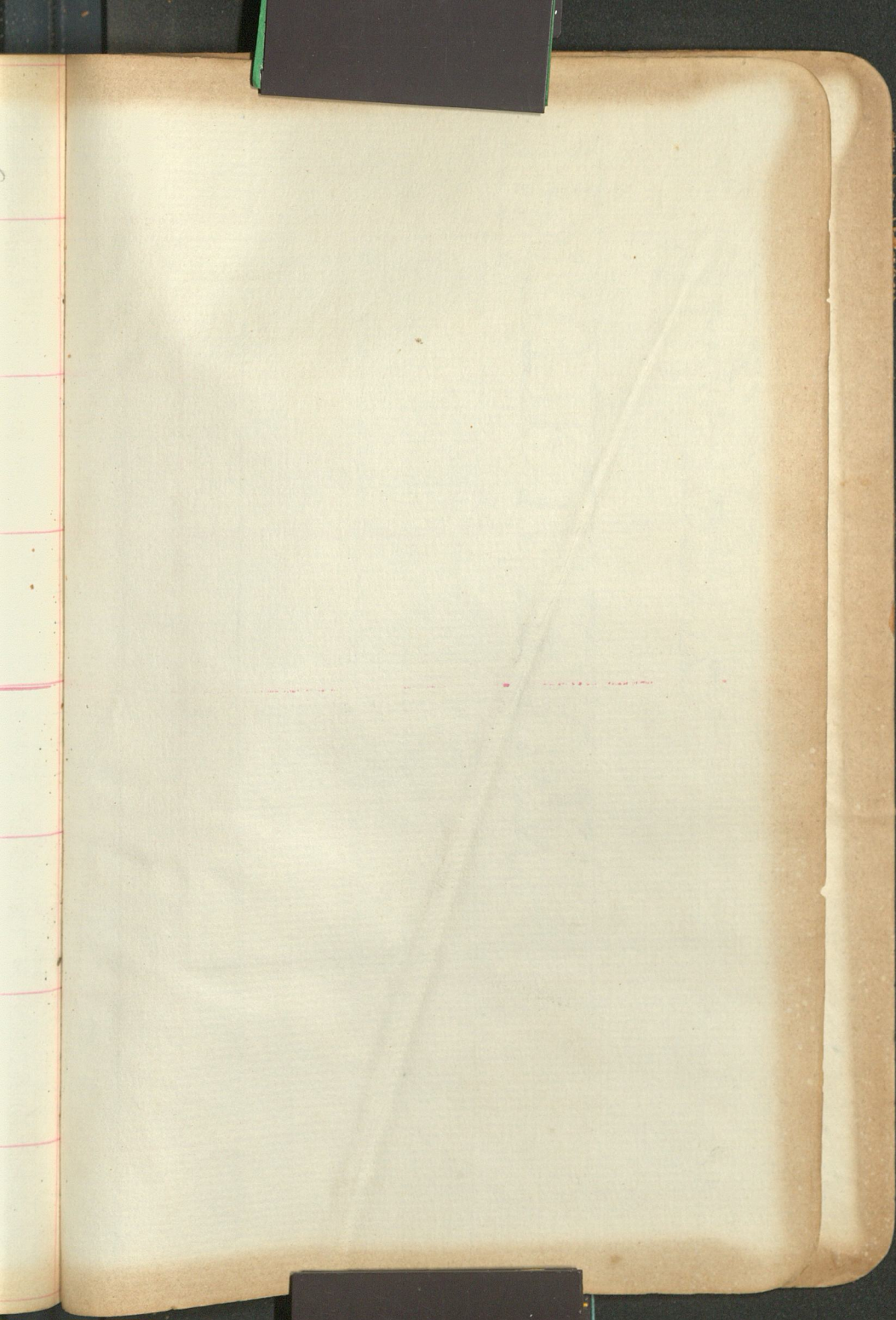






Saturday Oct. 9





59
7

21

**TABLE of Decimal parts of a FOOT for each
Inch and Sixteenth of an Inch.**

IN.	0	1	2	3	4	5	6	7	8	9	10	11
0	000	083	167	250	333	417	500	583	667	750	833	917
	005	089	172	255	339	422	505	589	672	755	839	922
$\frac{1}{8}$	010	094	177	260	344	427	510	594	677	760	844	927
	016	099	182	266	349	432	516	599	682	766	849	932
$\frac{1}{4}$	021	104	187	271	354	437	521	604	687	771	854	937
	026	109	193	276	359	443	526	609	693	776	859	943
$\frac{3}{8}$	031	115	198	281	365	448	531	615	698	781	865	948
	036	120	203	286	370	453	536	620	703	786	870	953
$\frac{1}{2}$	042	125	208	292	375	458	542	625	708	792	875	958
	047	130	214	297	380	464	547	630	714	797	880	964
$\frac{5}{8}$	052	135	219	302	385	469	552	635	719	802	885	969
	057	141	224	307	391	474	557	641	724	807	891	974
$\frac{3}{4}$	062	146	229	312	396	479	562	646	729	812	896	979
	068	151	234	318	401	484	568	651	734	818	901	984
$\frac{7}{8}$	073	156	240	323	406	490	573	656	740	823	906	990
	078	161	245	328	411	495	578	661	745	828	911	995

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36400

Edward Dwyer & Co
Stationers,
San Francisco, Cal.